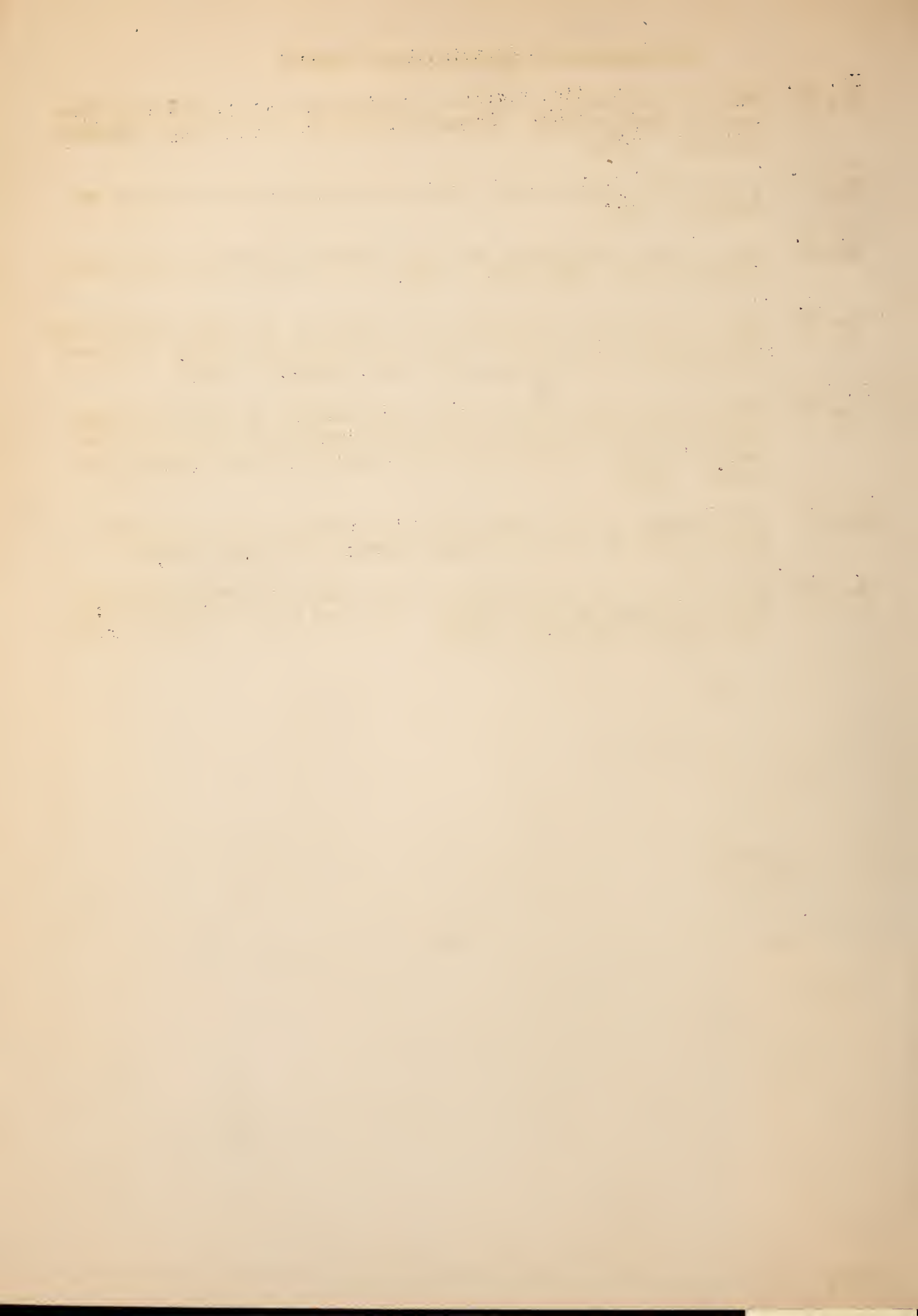


## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



CATTLE, SHEEP AND GOAT PRODUCTION IN THE RANGE COUNTRY

A selected list of publications issued by the U. S. Department of Agriculture and the Agricultural Colleges, Experiment Stations and Departments of Agriculture of the seventeen range states

Compiled by

Emma B. Hawks, Associate Librarian of the Department  
in collaboration with

Earl W. McComas, Associate Animal Husbandman,  
Bureau of Animal Industry.



## LIBRARY

Number 19

BIBLIOGRAPHICAL CONTRIBUTIONS

October, 1928

## CATTLE, SHEEP AND GOAT PRODUCTION IN THE RANGE COUNTRY

A selected list of publications issued by the U. S. Department of Agriculture and the Agricultural Colleges, Experiment Stations and Departments of Agriculture of the seventeen range states

Compiled by

Emma B. Hawks, Associate Librarian of the Department  
in collaboration with

Earl W. McComas, Associate Animal Husbandman,  
Bureau of Animal Industry.

Washington, D. C.





## P R E F A C E

The following list of publications on cattle, sheep and goat production in the range country was prepared at the request of the Animal Husbandry Division of the Bureau of Animal Industry and the Division of Farm Management of the Bureau of Agricultural Economics, which felt the need of such a list for distribution particularly to the county agents in the western states. The aim has been to include all publications of the U. S. Department of Agriculture and the agricultural colleges, experiment stations and departments of agriculture of the seventeen range states which would be useful in connection with the range industry. With two exceptions, publications from other sources have not been included. Publications previous to 1900 have been omitted except in the case of a few notable contributions which have not been superseded by later bulletins. Articles in annual reports of the U. S. Department of Agriculture, the Bureau of Animal Industry, and the state stations have not been included unless issued also in separate form.

Claribel R. Barnett,  
Librarian, U. S. Department of Agriculture.

October, 1928.





# SCHEDULE OF CLASSES

	Page
I. Breeds and breeding	
1. General .....	5
2. Beef cattle .....	5
3. Sheep .....	6
II. Climate .....	6
III. Diseases and their control	
1. General .....	7
2. Abortion .....	8
3. Actinomycosis .....	9
4. Anthrax .....	9
5. Blackleg .....	9
6. Brisket disease .....	10
7. Cattle fever and cattle ticks .....	10
8. Foot-and-mouth disease .....	12
9. Foot-rot of sheep .....	12
10. Goitre .....	12
11. Hemorrhagic septicemia .....	12
12. Milk fever .....	13
13. Milk sickness .....	13
14. Necrobacillosis .....	13
15. Rabies .....	13
16. Tuberculosis .....	14
17. Miscellaneous diseases .....	15
18. Pests and parasites .....	17
IV. Economics	
1. General .....	21
2. Ranch organization, methods and cost of production .....	22
3. Marketing .....	23
4. Livestock and meat statistics .....	24
V. Equipment	
1. General .....	25
2. Barns and sheds .....	25
3. Concrete .....	25
4. Fences .....	25
5. Silos .....	26
VI. Feeding	
1. General .....	28
2. Maintenance	
a. Beef cattle .....	29
3. Wintering	
a. Beef cattle .....	30
b. Sheep .....	31
4. Growing ...	
a. Beef cattle .....	31
b. Sheep .....	33
5. Fattening	
a. General .....	33
b. Beef cattle .....	33
c. Sheep .....	37

SCHEDULE OF CLASSES (Cont'd)

	Page
VII. Feeding stuffs; composition and digestibility.....	40
VIII. Forage	
1. Browse .....	45
2. Cultivated crops .....	45
a. Alfalfa .....	46
b. Alfilaria .....	48
c. Barley .....	48
d. Beans .....	48
e. Clover .....	49
f. Cowpeas .....	50
g. Emmer and spelt .....	50
h. Japanese sugar cane .....	50
i. Millet .....	50
j. Peas .....	50
k. Rape .....	50
l. Sorghum .....	51
m. Soybeans .....	52
n. Sunflowers .....	52
o. Vetch .....	53
3. Hay .....	53
4. Range and pasture grasses and plants.....	53
5. Silage .....	58
IX. Herd management	
1. General .....	59
2. Beef cattle .....	59
3. Sheep .....	60
4. Goats .....	62
X. Hides and skins .....	62
XI. Judging	
1. General .....	62
2. Beef cattle .....	62
XII. Poisonous plants	
1. General .....	63
2. Chokecherry .....	64
3. Death camas.....	64
4. Larkspur .....	64
5. Loco-weed .....	65
6. Lupine .....	66
7. Milkweed .....	66
8. Rayless goldenrod .....	67
9. Water hemlock .....	67
10. Woody aster .....	67
11. Miscellaneous .....	67
XIII. Predatory animals, rodents, and their control .....	70
XIV. Range and pasture management .....	73
XV. Salt and other minerals .....	76
XVI. Water supply .....	76
XVII. Wool and mohair studies .....	76

# CATTLE, SHEEP AND GOAT PRODUCTION IN THE RANGE COUNTRY

## A selected list of publications

### I. BREEDS AND BREEDING

#### 1. General

Essentials of animal breeding. G. M. Rommel. 1924. 30 p. U. S. Dept. Agr. Farmers' Bul. 1167, rev.

Principles of livestock breeding. Sewall Wright. 1923. 68 p. U. S. Dept. Agr. Bul. 905, rev.

Some tested methods for livestock improvement. D. S. Burch. 1925. 20 p. U. S. Dept. Agr. Misc. Circ. 33.

Utility value of purebred livestock. D. S. Burch. 1922. 22 p. U. S. Dept. Agr. Dept. Circ. 235.

#### 2. Beef Cattle

The beef calf; its growth and development. E. W. Sheets. 1924. 29 p. U. S. Dept. Agr. Farmers' Bul. 1135, rev.

Brahman (Zebu) cattle. V. V. Parr. 1923. 21 p. U. S. Dept. Agr. Farmers' Bul. 1361.

Breeds of beef cattle. E. W. Sheets. 1924. 22 p. U. S. Dept. Agr. Farmers' Bul. 612, rev.

Conformation of beef and dairy cattle. A. M. Soule. 1902. 44 p. U. S. Dept. Agr. Farmers' Bul. 143.

Dual-purpose and beef cattle, comprising lessons IV-VI, inclusive, animal husbandry extension course for boys' and girls' clubs. C. A. Norcross. 19 p. Nev. Coll. Agr. Ext. [Bul.] 3.

The Range bull. C. U. Pickrell. 1925. 48 p. Ariz. Coll. Agr. Ext. Circ. 51.

Studies in inheritance of certain characters of crosses between dairy and beef breeds of cattle. J. W. Gowen. 1918. U. S. Dept. Agr. Jour. Agr. Research, 15: 1-58 (Mc.-12)

Type in beef calves. F. S. Hultz. 1927. p. 70-94. Wyo. Agr. Expt. Sta. Bul. 153.

Type in two-year old beef steers. F. S. Hultz. 1927. p. 125-148. Wyo. Agr. Expt. Sta. Bul. 155.



## I. BREEDS AND BREEDING (Cont'd)

### 3. Sheep

- Breeds of sheep for the farm. F. R. Marshall. Rev. by D. A. Spencer. 1925. 14 p. U. S. Dept. Agr. Farmers' Bul. 576, rev.
- I. A Comparison of Cotswold and Southdown grade lambs. II. Fattening rations for aged ewes. A. D. Faville. 1912. 15 p. Wyo. Agr. Expt. Sta. Bul. 95.
- Domestic breeds of sheep in America. E. L. Shaw and L. L. Heller. 1914. 59 p. U. S. Dept. Agr. Bul. 94.
- Family performance as a basis for selection in sheep. E. G. Ritzman and C. B. Davenport. 1917. U. S. Dept. Agr. Jour. Agr. Research, 10: 93-97. (N.H.-3)
- Fertility in Shropshire sheep. Elmer Roberts. 1921. U. S. Dept. Agr. Jour. Agr. Research, 22: 231-234. (Ill.-11)
- Improved types of sheep for the Southwest, by F. W. Wilson; with a chapter on the sheep of Tunis and Algeria, by A. E. Vinson. 1912. p. 621-654. Ariz. Agr. Expt. Sta. Bul. 69.
- Inheritance of characters in sheep. A. E. Darlow. [1925] 15 p. Okla. Agr. Expt. Sta. Bul. 153.
- Karakul sheep. F. R. Marshall, L. L. Heller, and V. O. McWhorter. 1916. U. S. Dept. Agr. Yearbook, 1915, p. 249-262. (Y. B. Sep. 673)
- Scrub vs. purebred ram. A. E. Darlow. [1925] [4] p. Okla. Agr. Expt. Sta. Bul. 151.
- Sheepbreeding experiment; inheritance of characters in sheep. S.F. Russell. 1919. 22 p. Okla. Agr. Expt. Sta. Bul. 126.

## II. CLIMATE

- Climate in relation to crop adaptation in New Mexico. C. E. Linney and Fabian Garcia. 1918. 132 p. N. M. Agr. Expt. Sta. Bul. 113.
- The Climate of Nebraska. G. A. Loveland. 1923. [16] p. Nebr. Coll. Agr. Ext. Circ. 14.
- Native vegetation and climate in their relation to agriculture. W. W. Robbins. 1917. 58 p. Colo. Agr. Expt. Sta. Bul. 224.
- Relation of sheep to climate. E. L. Johnson. 1925. U. S. Dept. Agr. Jour. Agr. Research, 29: 491-500. (Ill.-20)

III. DISEASES AND THEIR CONTROL  
(See also XII. Poisonous Plants, p. 58)

1. General

- Directions for preparation of veterinary specimens for examination. M. Francis. 1916. 7 p. Tex. Agr. Expt. Sta. Circ. 16.
- Diseases of Colorado feeding lambs. I. E. Newcom and Floyd Cross. 1925. 26 p. Colo. Agr. Expt. Sta. Bul. 305.
- Diseases of sheep. B. A. Gallagher. 1921. 39 p. U. S. Dept. Agr. Farmers' Bul. 1155.
- Diseases of the stomach and bowels of cattle. A. J. Murray. Rev. in 1904 by Leonard Pearson and in 1908 by R. W. Hickman. 1909. 10 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 68.  
Reprinted with slight changes from Special report on the diseases of cattle rev. ed., 1908.
- Instructions for preparing and shipping pathological specimens for diagnosis. G. H. Hart. 1908. 10 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 123.  
Reprinted from 23d Annual report of Bureau (1906)
- Preparation and shipment of specimens for laboratory diagnosis. H. F. Lienhardt. 1920. 11 p. Kans. Agr. Expt. Sta. Circ. 83.
- Relations of federal government to control of contagious diseases of animals. D. E. Salmon. 1904. U. S. Dept. Agr. Yearbook, 1903, p. 491-506. (Y. B. Sep. 303)
- Simple live stock remedies. E. H. Lohmert. 1918. [4] p. Wyo. Agr. Expt. Sta. Circ. 13.
- Some common diseases of farm animals. Hugh Hurst. N. M. Coll. Agr. Ext. Circ. 79.
- Special report on diseases of cattle. Rev. ed. [Pub. by Bureau of animal industry, U. S. Dept. of agriculture] 563 p. 1923.
- State sanitary requirements governing admission of live stock. Comp. from reports of accredited officials of each state. 1922. 77 p. U. S. Dept. Agr. Bur. Anim. Indus. [Doc.] A. I. 36, rev.
- Ways to save young livestock. 1927. 5 p. U. S. Dept. Agr. Leaflet. 1.

### III. DISEASES AND THEIR CONTROL (Cont'd)

#### 2. Abortion

- Abortion-bacterin treatment of cows having udders infected by Bacterium abortus. J. M. Buck and G. T. Creech. 1926. U. S. Dept. Agr. Jour. Agr. Research, 31: 663-684. (A-100)
- Abortion disease in Wyoming. Cecil Elder. 1922. 11 p. Wyo. Agr. Expt. Sta. Circ. 18.
- Abortion disease of cattle. G. H. Glover. 1921. 11 p. Colo. Agr. Coll. Ext. Bul. 175-A.
- The Abortion problem in farm live stock. L. Van Es. 1923. 46 p. Nebr. Agr. Expt. Sta. Circ. 21.
- Bacterium abortus infection of bulls. Preliminary report. J. M. Buck, G. T. Creech, and H. H. Ladson. 1919. U. S. Dept. Agr. Jour. Agr. Research, 17: 239-246. (A-49)
- The bacterium of contagious abortion of cattle demonstrated to occur in milk. A. D. Melvin. 1912. 3 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 198.
- Bovine infectious abortion and associated diseases of cattle and new-born calves. I. Methods of controlling abortion, by G. H. Hart. II. The importance of Bacterium abortum of Bang and other microorganisms in bovine infectious abortion, by Jacob Traum. III. Manifestations of abortion disease without demonstrable etiological factor, by Jacob Traum and G. H. Hart. IV. Diseases of the genital tract of cattle frequently associated with abortion, by F. M. Hayes. V. The diagnosis of pregnancy in cattle, by G. H. Hart. VI. Scours and pneumonia in calves, by G. H. Hart and Jacob Traum. 1923. p. 267-397. Calif. Agr. Expt. Sta. Bul. 353.
- Contagious abortion in cows. J. W. Kalkus. 1915. [4] p. Wash. Agr. Expt. Sta. Pop. Bul. 94.
- Contagious abortion in mares and cows. H. J. Frederick. 1918. 18 p. Utah Agr. Expt. Sta. Circ. 28.
- Contagious abortion of cattle. Howard Welch. 1917. p. 41-43. Mont. Agr. Expt. Sta. Circ. 61.
- The Granular venereal disease and abortion in cattle. W. L. Williams. 1914. 57 p. U. S. Dept. Agr. Bul. 106.
- Infectious abortion in sheep; a preliminary report. Howard Welch and Hadleigh Marsh. 1925. 4 p. Mont. Agr. Exp. Sta. Bul. 181.
- Infectious abortion investigations. H. F. Lienhardt, C. H. Kitselman, and C. E. Sawyer. 1925. 23 p. Kans. Agr. Expt. Sta. Tech. Bul. 14.



### III. DISEASES AND THEIR CONTROL (Cont'd)

#### 2. Abortion (Cont'd)

- Infectious abortion of cattle. B. T. Simms and F. W. Miller. 1922. 12 p. Oreg. Agr. Expt. Sta. Bul. 192.
- Infectious abortion of cattle. J. M. Buck. 1927. 14 p. U. S. Dept. Agr. Farmers' Bul. 1536.
- Infectious abortion of cattle. C. H. Kitselman. 1928. 11 p. Kans. Agr. Expt. Sta. Circ. 1536.
- The Internal use of carbolic acid for the prevention of contagious abortion in cattle, with some notes on the relation of granular vaginitis to abortion. W. J. Taylor. 1912. 31 p. Mont. Agr. Expt. Sta. Bul. 90.
- Some facts about abortion disease. E. C. Schroeder and W. E. Cotton. 1917. U. S. Dept. Agr. Jour. Agr. Research, 9: 9-16. (A-29)
- Studies relating to the immunology of bovine infectious abortion. J. M. Buck and G. T. Creech. 1924. U. S. Dept. Agr. Jour. Agr. Research, 28: 607-642. (A-90)

#### 3. Actinomycosis

- Actinomycosis, or lumpy jaw. D. E. Salmon and Theobald Smith. Rev. by D. E. Salmon and J. R. Mohler. [1906] 10 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 96.
- Reprinted, with slight revision, from Special report on diseases of cattle, 1904.

#### 4. Anthrax

- Anthrax. W. B. Mack. 1911. 11 p. Nebr. Agr. Expt. Sta. Circ. 13.
- Anthrax in cattle, horses, and men. D. E. Salmon and Theobald Smith. Rev. in 1904 by Drs. Salmon and Mohler. [1905] 10 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 71.
- Reprint from Special report on the diseases of cattle, 1904; Special report on diseases of the horse, 1903.

- Anthrax or charbon. H. J. Washburn. 1922. 16 p. U. S. Dept. Agr. Farmers' Bul. 784.

#### 5. Blackleg

- Blackleg. Edward Records. 1918. 7 p. Nev. Coll. Agr. Ext. [Bul.] 18.
- Blackleg and its control. L. W. Goss. 1919. [4] p. Kans. Agr. Expt. Sta. Circ. 75.
- Blackleg in cattle. Howard Welch. 1923. 8 p. Mont. Agr. Expt. Sta. Circ. 110.



### III. DISEASES AND THEIR CONTROL (Cont'd)

#### 5. Blackleg (Cont'd)

Blackleg; its nature, cause and prevention. J. R. Mohler. 1923. 13 p. U. S. Dept. Agr. Farmers' Bul. 1355.

Blackleg; with new methods for its prevention and treatment. G. H. Hart. 1918. 8 p. Calif. Agr. Expt. Sta. Circ. 205.

Blackleg vaccines: their production and use. J. P. Scott. 1923. 24 p. Kans. Agr. Expt. Sta. Tech. Bul. 10.

The Essentials of blackleg prevention. L. Van Es. 1920. 7 p. Nebr. Coll. Agr. Ext. Bul. 59.

Prevention of blackleg. G. H. Glover. 1921. 4 p. Colo. Agr. Coll. Ext. Bul. 182-A.

#### 6. Brisket Disease

Brisket disease. G. H. Glover and I. E. Newsom. 1917. 8 p. Colo. Agr. Expt. Sta. Bul. 229.

Further studies on brisket disease. G. H. Glover and I. E. Newsom. U. S. Dept. Agr. Jour. Agr. Research, 15: 409-414. (Colo.-2)

#### 7. Cattle Fever and Cattle Ticks

The Action of arsenical dips in protecting cattle from infestation with ticks. H. W. Graybill. 1913. 27 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 167.

The Analysis of coal-tar creosote and cresylic acid sheep dips. R. M. Chapin. 1908. 35 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 107.

Cattle-fever ticks and methods of eradication. W. P. Ellenberger and R. M. Chapin. 1926. 21 p. U. S. Dept. Agr. Farmers' Bul. 1057, rev.

Directions for constructing vats and dipping cattle to destroy ticks. H. W. Graybill and W. P. Ellenberger. 1915. 22 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 207.

Eradicating cattle ticks in California. W. M. MacKellar and G. H. Hart. 1911. p. 282-300. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 174.

How to get rid of cattle ticks. [1906] 4 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 97.

How to get the last tick; observations resulting from active field experience in tick eradication. W. M. MacKellar. [Pub. by Bur. Anim. Indus. U. S. Dept. Agr.] 1922. 20 p.

### III. DISEASES AND THEIR CONTROL (Cont'd)

#### 7. Cattle Fever and Cattle Ticks (Cont'd)

Information concerning the North American fever tick, with notes on other species. W. D. Hunter and W. A. Hooker. 1907. 87 p. U. S. Dept. Agr. Bur. Ent. Bul. 72.

Investigations relative to arsenical dips as remedies for cattle ticks. B. H. Ransom and H. W. Graybill. 1912. 65 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 144.

Note on the occurrence of the North American fever tick on sheep. W. D. Hunter. 1907. 3 p. U. S. Dept. Agr. Bur. Ent. Circ. 91.

Progress and prospects of tick eradication. Cooper Curtice. 1912. p. 255-265. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 187. Reprinted from the 27th Annual report of Bureau (1910)

Some results of cattle-tick eradication. 1912. 4 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 196.

Some unusual host relations of the Texas fever tick. B. H. Ransom. [1906] 8 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 98.

State laws and court decisions relating to cattle-tick eradication. Comp. by Harry Goding. 1921. 71 p. U. S. Dept. Agr. Dept. Circ. 184.

The Story of the cattle fever tick; what every southern child should know about cattle ticks [Rev.] [Pub. by U. S. Dept. of Agriculture] 1922. 31 p.

Studies on the biology of the Texas-fever tick. H. W. Graybill. 1911. 42 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 130.

Studies on the biology of the Texas-fever tick. H. W. Graybill and W. M. Lewallen. (Supplementary report) 1912. 13 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 152.

Texas or tick fever. J. R. Mohler. 1926. 20 p. U. S. Dept. of Agr. Farmers' Bul. 569, rev.

The Tick primer. [Pub. by U. S. Dept. Agriculture] 1915. 7 p.

### III. DISEASES AND THEIR CONTROL (Cont'd)

#### 8. Foot-and-Mouth Disease

Foot-and-mouth disease. J. R. Mohler. 1926. 13 p. U. S. Dept. Agr. Farmers' Bul. 666, rev.

Foot-and-mouth disease, with special reference to the outbreak of 1914. J. R. Mohler. 1924. 32 p. U. S. Dept. Agr. Dept. Circ. 325.

Foot-and-mouth disease, with special reference to the outbreaks in California, 1924, and Texas, 1924 and 1925. J. R. Mohler. 1926. 83 p. U. S. Dept. Agr. Dept. Circ. 400.

Instructions for employees engaged in eradicating foot-and-mouth disease. Pub. by Bur. Anim. Indus., U. S. Dept. Agr. 1925. 31 p.

The origin of the recent outbreak of foot-and-mouth disease in the United States. J. R. Mohler and M. J. Rosenau. 1909. 29 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 147.

Reissued in 1915 as an unnumbered publication.

Report of the foot-and-mouth disease commission of the United States Dept. of Agriculture. P. K. Olitsky, Jacob Traum, and H. W. Schoening. 1928. 172 p. U. S. Dept. Agr. Tech. Bul. 76.

#### 9. Foot-rot of Sheep

Foot-rot of sheep; its nature, cause and treatment. J. R. Mohler and H. J. Washburn. 1904. 39 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 63.

An abstract of this bulletin was published in the Annual report of the Bureau (for 1904) and as its Circular 94.

#### 10. Goitre

The Prevention of goitre (big-neck) and hairlessness of newborn domestic animals. J. W. Kalkus. 1919. 12 p. Wash. Agr. Expt. Sta. Pop. Bul. 117.

A Study of goitre and associated conditions in domestic animals. J. W. Kalkus. 1920. 48 p. Wash. Agr. Expt. Sta. Bul. 156.

#### 11. Hemorrhagic Septicemia

Hemorrhagic septicemia. H. J. Washburn. 1918. 11 p. U. S. Dept. Agr. Bul. 674.

Much of the same material issued also as Farmers' Bul. 1018.



### III. DISEASES AND THEIR CONTROL (CONT'D)

#### 11. Hemorrhagic Septicemia (Cont'd)

Hemorrhagic septicemia in sheep. I. E. Newsom. 1919. 10 p. Colo. Agr. Coll. Ext. Bul. 154-A.

The Immunizing value of commercial vaccines and bacterins against hemorrhagic septicemia. L. Van Es and H. M. Martin. 1920. 19 p. Nebr. Agr. Expt. Sta. Research Bul. 17.

Studies of immunity against hemorrhagic septicemia. L. Van Es and H. M. Martin. 1922. 38 p. Nebr. Agr. Expt. Sta. Research Bul. 21.

#### 12. Milk Fever

Milk fever: its simple and successful treatment. J. R. Mohler. 1904. 13 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 45.

#### 13. Milk Sickness

A Monograph on trembles or milksickness and white snakeroot. F. A. Wolf, R. S. Curtis, and B. F. Kaupp. 1918. 74 p. N. C. Agr. Expt. Sta. Tech. Bul. 15.

#### 14. Necrobacillosis

Bacillus necrophorus and its economic importance. J. R. Mohler and G. B. Morse. 1906. p. 73-116. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 91. Reprinted from 21st Annual report of Bureau (1904)

Lip-and-leg ulceration of sheep. I. The work of the Bureau of animal industry for the suppression of lip-and-leg ulceration of sheep. By A. D. Melvin. II. Lip-and-leg ulceration (Necrobacillosis) of sheep; its cause and treatment. 1910. 35 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 160.

Necrobacillosis. G. H. Glover. 1923. 12 p. Colo. Agr. Expt. Sta. Bul. 289.

Necrotic stomatitis, with special reference to its occurrence in calves (calf diphtheria) and pigs (sore mouth) J. R. Mohler and G. B. Morse. 1905. 48 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 67.

Sore mouth in lambs and other forms of necrobacillosis in sheep. Howard Welch. 1926. 16 p. Mont. Agr. Expt. Sta. Bul. 186.

#### 15. Rabies

Rabies or hydrophobia. J. R. Mohler. 1923. 20 p. U. S. Dept. Agr. Farmers' Bul. 449, rev.

### III. DISEASES AND THEIR CONTROL (Cont'd)

#### 16. Tuberculosis

The Accredited-herd plan in tuberculosis eradication. J. A. Kiernan. 1919.  
U. S. Dept. Agr. Yearbook, 1918, p. 215-220. (Y. B. Sep. 782)

Bovine tuberculosis. L. Van Es. 1924. 66 p. Nebr. Agr. Expt. Sta. Circ. 23.

The Control of bovine tuberculosis. American veterinary medical association.  
International commission on the control of bovine tuberculosis. 1911.  
27 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 175.

Danger of infection with tuberculosis by different kinds of exposure. E. C.  
Schroeder and W. E. Cotton. 1905. p. 44-65. U. S. Dept. Agr. Bur. Anim.  
Indus. Circ. 83.  
Reprint from 21st Ann. rept. of the Bureau (1904)

Diagnosis of tuberculosis by complement fixation, with special reference to  
bovine tuberculosis. Adolph Eichhorn and A. Blumberg. 1917. U. S. Dept.  
Agr. Jour. Agr. Research. 8: 1-20. (A-26)

Experiments concerning tuberculosis. 1904-05. 3 pts., 125 p. U. S. Dept.  
Agr. Bur. Anim. Indus. Bul. 52.  
Contents. Pt. 1. The virulence of human and bovine tubercle bacilli  
for guinea pigs and rabbits. By Marion Dorset. Pt. 2. The comparative  
virulence of human and bovine tubercle bacilli for some large animals.  
By E. A. de Schweinitz, Marion Dorset and E. C. Schroeder. Pt. 3.  
Studies in immunity from tuberculosis, by E. C. Schroeder, and The  
persistence of tubercle bacilli in tissues of animals after injection,  
by E. C. Schroeder and W. E. Cotton.

Investigations concerning bovine tuberculosis, with special reference to  
diagnosis and prevention. Theobald Smith, F. L. Kilborne and E. C.  
Schroeder. 1894. 178 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 7.  
"Tuberculin and its use. By E. A. de Schweinitz": p. 157-178.

The Preparation and use of tuberculin. E. A. de Schweinitz. 1899. U. S.  
Dept. Agr. Yearbook, 1898, p. 111-120. (Y. B. Sep. 131)

Some facts about tuberculous cattle. E. C. Schroeder. 1909. U. S. Dept.  
Agr. Yearbook, 1908, p. 217-226. (Y. B. Sep. 476)

The tuberculin test for tuberculosis. D. E. Salmon. 1905. 14 p. U. S.  
Dept. Agr. Bur. Anim. Indus. Circ. 79.  
Reprint from the Yearbook of the Dept. of Agriculture for 1901.

Tuberculin testing of livestock. L. B. Ernest and Elmer Lash. 1928. 26 p.  
U. S. Dept. Agr. Circ. 249, rev.

### III. DISEASES AND THEIR CONTROL (Cont'd)

#### 16. Tuberculosis (Cont'd)

- Tuberculosis in live stock; detection, control and eradication. J. A. Kiernan and A. E. Wight. 1925. 22 p. U. S. Dept. Agr. Farmers' Bul. 1069, rev.
- Tuberculosis of cattle. D. E. Salmon and Theobald Smith. (Rev. in 1904 by Drs. Salmon and Mohler) [1905] 28 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 70.  
Reprint from Special report on the diseases of cattle. 1904.
- Tuberculosis investigations. The growth of the tuberculosis bacillus upon acid media. E. A. de Schweinitz and Marion Dorset. 1896. Further experiments with an attenuated tuberculosis bacillus. E. A. de Schweinitz and E. C. Schroeder. The effect of tuberculin injections upon the milk of healthy and diseased cows. E. A. de Schweinitz, 1896. 27 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 13.
- The Unsuspected but dangerously tuberculous cow. E. C. Schroeder. 1907. 19 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 118.
- The Vaccination of cattle against tuberculosis. E. C. Schroeder, W. E. Cotton, J. R. Mohler, and H. J. Washburn. 1912. p. 327-343. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 190.  
Reprinted from 27th Annual Report of Bureau (1910)

#### 17. Miscellaneous Diseases

- Anaplasmosis of cattle in the United States. L. T. Giltner and G. W. Stiles, jr. Journ. Amer. Vet. Med. Assn. 72 : 919-928. Mar. 1928.
- Bighead in sheep. H. J. Frederick. 1914. 6 p. U. S. Dept. Agr. Bur. Anim. Indus. A-3.
- Bloat; emergency treatment and prevention. L. Van Es. 1926. 8 p. Nebr. Agr. Coll. Ext. Circ. 231.
- Cattle disease resulting from eating damaged or spoiled sweet clover, hay or silage. A. F. Schalk. 1926. 13 p. N. D. Agr. Expt. Sta. Circ. 27.
- Chronic bacterial dysentery of cattle. J. R. Mohler. [1910] 3 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 156.  
Reprinted from 25th Annual report of Bureau (1908)
- The Effect of smelter fumes upon livestock industry in the Northwest. R. J. Formad. 1925. 26 p.  
Reprinted from 25th Annual Report of Bur. Anim. Industry, U. S. Dept. Agr. (1908)



III. DISEASES AND THEIR CONTROL (Cont'd)

17. Miscellaneous Diseases (Cont'd)

Enzymes in cornstalks and their relation to cornstalk disease. T. M. Price. 1905. p. 66-75. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 84.  
Reprinted from 21st Annual report of the Bureau (1904)

Field and laboratory notes on a fatal disease of cattle occurring on the coastal plains of Texas (loin disease) H. Schmidt. 1924. 32 p. Tex. Agr. Expt. Sta. Bul. 319.

Injuries to cattle from swallowing pointed objects. Theobald Smith and C. F. Dawson. [1896] 4 p. U. S. Dept. of Agr. Bur. Anim. Indus. Circ. 8.  
Reprint of p. 78-81 of 10th-11th Annual reports of Bureau.

Injury to vegetation and animal life by smelter wastes. J. K. Haywood. 1908. 40 p. U. S. Dept. Agr. Bur. Chem. Bul. 113.

The "lunger" disease of sheep. Howard Welch and Hadleigh Marsh. 1927. 8 p. Mont. Agr. Expt. Sta. Bul. 210.

Malta fever, with special reference to its diagnosis and control in goats. J. R. Mohler and Adolph Eichhorn. 1913. p. 119-136. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 215.  
Reprinted from 28th Annual report of Bureau (1911)

Mycotic stomatitis of cattle. J. R. Mohler. 1924. 7 p. U. S. Dept. Agr. Dept. Circ. 322.

Occurrence of coccidioidal granuloma (oidiomycosis) in cattle. L. T. Giltner. 1918. U. S. Dept. Agr. Jour. Agr. Research, 14: 533-542 (A-43)

Ophthalmia in cattle. M. R. Trumbower. 1917. 2 p. U. S. Dept. Agr. Bur. Anim. Indus. A-14.  
Reprinted from Special report on the diseases of cattle. 1916.

Osteomalacia, or creeps, in cattle. V. T. Atkinson. [1905] 2 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 66.  
Reprinted from Special report on the diseases of cattle. 1904.

Sheep losses in Colorado feed lots. Study no. 1. Feeding experiments. G. H. Glover and I. E. Newsom. 1921. 25 p. Colo. Agr. Expt. Sta. Bul. 270.

Sheep losses in Colorado feed lots. Study no. 2. Paratyphoid dysentery. I. E. Newsom and Floyd Cross. 1925. 18 p. Colo. Agr. Expt. Sta. Bul. 302.



### III. DISEASES AND THEIR CONTROL (Cont'd)

#### 17. Miscellaneous Diseases(Cont'd)

Takosis, a contagious disease of goats. A preliminary report on its nature, cause and prevention. J. R. Mohler and H. J. Washburn. 1903. 44 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 45.  
Published also in 19th Annual Report of Bureau, 1902, p. 354-390.

Tumors of domestic animals. R. J. Formad. 1926. 40 p. U. S. Dept. Agr. Dept. Bul. 1449.

#### 18. Pests and Parasites

(See also III. 7. Cattle Fever and Cattle Ticks, p. 10)

The Action of anthelmintics on parasites located outside of the alimentary canal. B. H. Ransom and M. C. Hall. 1912. 23 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 153.

The Animal parasites of sheep. Cooper Curtice. [Pub. by Bur. of animal industry, U. S. Dept. of agriculture] 1890. 222 p.

Benzene as a larvicide for screw worms. D. C. Parmen. 1926. U. S. Dept. Agr. Jour. Agr. Research, 31: 885-888 (K-152)

A Calendar of livestock parasites. M. C. Hall. 1928. 14 p. U. S. Dept. Agr. Misc. Pub. 25.

Carbon tetrachlorid for the removal of parasitic worms, especially hookworms. M. C. Hall. 1921. U. S. Dept. Agr. Jour. Agr. Research, 21: 157-175. (A-58)

The Cattle grubs or ox warbles, their biologies and suggestions for control. F. C. Bishopp, E. W. Laake, H. M. Brundrett, and R. W. Wells. 1926. 119 p. U. S. Dept. Agr. Dept. Bul. 1369.

Cattle lice and how to eradicate them. Marion Imes. 1925. 24 p. U. S. Dept. Agr. Farmers' Bul. 909, rev.

Cattle scab and methods of control and eradication. Marion Imes. 1924. 30 p. U. S. Dept. Agr. Farmers' Bul. 1017, rev.

Critical tests of miscellaneous anthelmintics. M. C. Hall and J. E. Shillinger. 1925. U. S. Dept. Agr. Jour. Agr. Research, 29: 313-332 (A-84)

Cysticercus ovis, the cause of tapeworm cysts in mutton. B. H. Ransom. 1913. U. S. Dept. Agr. Jour. Agr. Research, 1: 15-58. (A-1)

Efficacy of some anthelmintics. M. C. Hall and W. D. Foster. 1918. U. S. Dept. Agr. Jour. Agr. Research, 12: 397-447. (A-34)

Eleven miscellaneous papers on animal parasites. C. W. Stiles, Albert Hassall, W. A. Frankland and Louise Taylor. 1902. 61 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 35.

### III. DISEASES AND THEIR CONTROL (Cont'd)

#### 18. Pests and Parasites (Cont'd)

The eradication of the sheep tick: L. D. Swingle. 1915. 47 p. Wyo. Agr. Expt. Sta. Bul. 105.

The Gid parasite (Coenurus cerebralis): its presence in American sheep. B. H. Ransom. 1905. 23 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 66.

Horse-flies and cattle. S. B. Doten. 1921. 13 p. Nev. Agr. Expt. Sta. Bul. 102.

Insects affecting domestic animals: An account of the species of importance in North America, with mention of related forms occurring on other animals. Herbert Osborn. 1896. 302 p. U. S. Dept. Agr. Div. Ent. Bul. n.s. 5.

Internal parasites affecting sheep and goats; causes, life history, symptoms and treatments. D. H. Bennett. 1921. 16 p. Tex. Agr. Expt. Sta. Circ. 28.

The Life history and bionomics of some North American ticks. W. A. Hooker, F. C. Bishopp and H. P. Wood. 1912. 239 p. U. S. Dept. Agr. Bur. Ent. Bul. 106.

The Life-history of the sheep tick, Melophagus ovinus. 1913. 24 p. Wyo. Agr. Expt. Sta. Bul. 99.

Liver fluke and stomach worm of sheep. S. B. Freeborn. 1928. 14 p. Calif. Coll. Agr. Ext. Circ. 17.

Liver flukes in sheep, goats and cattle. B. T. Simms. 1917. [2] p. Oreg. Agr. Col. Ext. Bul. 211.

"Lungworms", a preliminary report on treatment, with some observations regarding the epidemiology and life history of the parasite. W. B. Herms, and S. B. Freeborn. 1916. 8 p. Calif. Agr. Expt. Sta. Circ. 148.

Mange in cattle and horses, and lice on hogs. A. T. Peters. 1902. 27 p. Nebr. Agr. Expt. Sta. Bul. 74.

Measles in cattle. B. H. Ransom. p. 101-117. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 214.

Reprinted from 28th Annual report of Bureau (1911)

Methods for the eradication of gid. M. C. Hall. 1910. 29 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 165.

Miscellaneous tests of carbon tetrachlorid as an anthelmintic. M. C. Hall and J. E. Shillinger. 1923. U. S. Dept. Agr. Jour. Agr. Research, 23: 163-192. (A-63)

The Morphology of the sheep tape-worm, Thysanosoma actinioides. L. D. Swingle. 1914. p. 101-116. Wyo. Agr. Expt. Sta. Bul. 102.



### III. DISEASES AND THEIR CONTROL (Cont'd)

#### 18. Pests and Parasites (Cont'd)

Our present knowledge of the distribution and importance of some parasitic diseases of sheep and cattle in the United States. M. C. Hall. 1912. p. 419-463. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 193.  
Reprinted from 27th Annual report of Bureau (1910)

Parasites and parasitic diseases of sheep. M. C. Hall. 1923. 54 p. U. S. Dept. Agr. Farmers' Bul. 1330.

A practical demonstration of a method for controlling the cattle tick. W. D. Hunter and J. D. Mitchell. 1909. 4 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 148.

Preparasitic stages in the life history of the cattle hookworm (Bufo phlebotomum) Benjamin Schwartz. 1925. U. S. Dept. Agr. Jour. Agr. Research, 29: 451-458. (A-80)

The prevention of losses among sheep from stomach worms (Haemonchus contortus) B. H. Ransom. [1910] 10 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 157.  
Reprinted from 25th Annual report of Bureau (1908)

The Protozoan parasites of domesticated animals. Howard Crawley. 1912. p. 465-498. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 194.  
Reprinted from 27th Annual report of Bureau (1910)

Repellents for protecting animals from the attacks of flies. H. W. Graybill. 1914. 26 p. U. S. Dept. Agr. Bul. 131.

Sarcocystis tenella; the muscle parasite of the sheep. J. W. Scott and E. C. O'Roke. 1920. p. [67]-94. Wyo. Agr. Expt. Sta. Bul. 124.

Scabies in cattle. R. W. Hickman. 24 p. 1902. U. S. Dept. Agr. Farmers' Bul. 152.  
Originally published as Bulletin 40 of Bur. Animal Industry. Revised for Farmers' Bulletin series. Published also in 19th Annual report of Bur. Animal Industry (1902), p. 45-61.

Scabies (mange) in cattle. E. S. Moore. 1911. p. 201-213. S. D. Agr. Expt. Sta. Bul. 131.

Screw worms and other maggots affecting animals. F. C. Bishopp, E. W. Lanke, and D. C. Parman. 1926. 14 p. U. S. Dept. Agr. Farmers' Bul. 857.

Sheep and goat lice; methods of control and eradication. Marion Innes. 1928. 3 p. U. S. Dept. Agr. Leaflet 13.

### III. DISEASES AND THEIR CONTROL (Cont'd)

#### 18. Pests and Parasites (Cont'd)

Sheep scab. Marion Imes. 1920. 36 p. U. S. Dept. Agr. Farmers' Bul. 713, rev.

The Sheep tick and its eradication by dipping. Marion Imes. 1923. 30 p. U. S. Dept. Agr. Farmers' bul. 798, rev.

Some common parasites of live stock in Colorado. O. G. Babcock. 1920. 19 p. Colo. Agr. Coll. Ext. Bul. 166-A.

Some important facts in the life history of the gid parasite and their bearing on the prevention of the disease. M. C. Hall. 1910. 7 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 159.

Solenopotes capillatus, a sucking louse of cattle not heretofore known in the United States. F. C. Bishopp. 1921. U. S. Dept. Agr. Jour. Agr. Research 21: 797-801.

Some internal parasites of Oklahoma livestock. J. E. Guberlet. 1921. 15 p. Okla. Agr. Coll. Ext. Circ. 127.

The Spinose ear tick and methods of treating infested animals. Marion Imes. 1918. 8 p. U. S. Dept. Agr. Farmers' Bul. 980.

The Stable fly. F. C. Bishopp. 1913. 28 p. U. S. Dept. Agr. Farmers' Bul. 540.

Stomach worms in sheep. J. E. Guberlet. 1921. 16 p. Okla. Agr. Expt. Sta. Bul. 137.

Stomach worms in sheep. 1919. 12 p. U. S. Dept. Agr. Dept. Circ. 47.

Treatment for roundworms in sheep, goats and cattle. C. W. Stiles. [1901] 8 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 35.  
Also published in Bulletin 35 of the Bureau, p. 7-14.

Trypanosoma americanum, a common blood parasite of American cattle. Howard Crawley. 1912. 39 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 145.

#### IV. ECONOMICS

##### 1. General

Cattle loans and their value to investors. C. S. Cole. 1919. U. S. Dept. Agr. Yearbook, 1918, p. 101-108. (Y. B. Sept. 764)

Cost of fencing farms in the north central states. H. N. Humphrey. 1916. 32 p. U. S. Dept. Agr. Bul. 321.

The Farming business in Idaho, being Part I of a tentative report of the agricultural situation; based on an economic survey of the production and marketing of Idaho farm products. 1927. 125 p. Idaho Agr. Expt. Sta. Bul. 151.  
Livestock enterprises: p. 101-125.

Features of the sheep industries of the United States, New Zealand, and Australia compared. F. R. Marshall. 1915. 35 p. U. S. Dept. Agr. Bul. 313.

Meat production in the Argentine and its effect upon the industry in the United States. A. D. Melvin and G. M. Rormel. 1915. U. S. Dept. Agr. Yearbook, 1914, p. 361-390. (Y. B. Sept. 648)

Meat situation in the United States. 1916. 5 pts. U. S. Dept. Agr. Report 109-113.

Contents. Pt. I. Statistics of livestock, meat production and consumption, prices, and international trade for many countries. By G. K. Holmes. Pt. II. Livestock production in the eleven far western range states. By W. C. Barnes and J. T. Jardine. Pt. III. Methods and costs of growing cattle in the corn belt states. By J. S. Cotton, M. O. Cooper, W. F. Ward, and S. H. Ray. Pt. IV. Utilization and efficiency of available American feed stuffs. By W. F. Ward and S. H. Ray. Pt. V. Methods and cost of marketing live stock and meats. By L. D. Hall, F. M. Simpson, and S. W. Doty.

Our beef supply. E. W. Sheets, C. E. Baker, C. F. Gibbons, O. C. Stine, and R. H. Wilcox. 1922. U. S. Dept. Agr. Yearbook, 1921, p. 227-322. (Y. B. Sep. 874)

The Relation of livestock and the silo to farm profits. R. W. Clark. 1919. 8 p. Colo. Agr. Coll. Ext. Bul. 157-A.

Report in regard to the range and ranch cattle business of the United States. Joseph Nimmo. Pub. by Bureau of statistics, U. S. Treasury dept. 1835. 200 p.

Sheep and wool: a review of the progress of American sheep husbandry. J. R. Dodge. 1900. 63 p. U. S. Dept. Agr. Report 66.

The Sheep industry. D. A. Spencer, M. C. Hall, C. D. Marsh, J. S. Cotton, C. E. Gibbons, O. C. Stine, O. E. Baker, V. N. Valgren, R. D. Jennings, G. K. Holmes, W. B. Bell, and W. C. Barnes. 1924. U. S. Dept. Agr. Yearbook, 1923, p. 229-310. (Y. B. Sep. 894)



#### IV. ECONOMICS. (Cont'd)

##### 1. General (Cont'd)

Special report on the history and present condition of the sheep industry of the United States. E. A. Carman, H. A. Heath, and John Minto. Pub. by U. S. Dept. Agr., Bur. Anim. Indus. 1892. 1000 p.

##### 2. Ranch Organization, Methods; and Cost of Production.

Cattle ranching in Utah. Report of a preliminary economic survey of the ranch situation as of 1925. William Peterson, P. V. Cardon, K. C. Ikeler, George Stewart, and A. C. Esplin. 1927. 56 p. Utah Agr. Expt. Sta. Bul. 203.

Cost of beef production under semi-range conditions. G. E. Morton. 1914. 8 p. Colo. Agr. Expt. Sta. Bul. 189.

Cost of producing beef on the ranges of eastern Oregon. E. L. Potter. 1925. 22 p. Oreg. Agr. Expt. Sta. Bul. 220.

Cost of producing mutton and wool on eastern Oregon ranges. E. L. Potter and H. A. Lindgren. 1925. 13 p. Oreg. Agr. Expt. Sta. Bul. 219.

Cost and profits of sheep on irrigated farms. E. L. Potter and Robert Withycombe. 1925. 15 p. Oreg. Agr. Expt. Sta. Circ. 62.

An Economic study of a typical ranching area on the Edwards Plateau of Texas. B. Youngblood and A. B. Cox. 1922. 437 p. Tex. Agr. Expt. Sta. Bul. 297. Bibliography: p. 426-437.

Factors in the cost of producing beef in the Flint Hills section of Kansas. R. H. Wilcox, W. E. Grimes, Morris Evans, and H. J. Henney. 1926. 26 p. U. S. Dept. Agr. Bul. 1454.

Preliminary report on a study of cattle production costs in Nevada. C. A. Brennan and G. H. Smith, jr. 1928. 14 p. Nev. Agr. Expt. Sta. Bul. 111.

A Preliminary study of 127 New Mexico ranches in 1925. A. L. Walker and J. L. Lantow. 1927. 107 p. N. M. Agr. Expt. Sta. Bul. 159.

Ranch organization and methods of livestock production in the Southwest. V. V. Parr, G. W. Collier, and G. S. Klermedson. 1928. 104 p. U. S. Dept. Agr. Tech. Bul. 68.

Range and ranch studies in Wyoming. A. F. Vass. 1926. p. 91-151. Wyo. Agr. Expt. Sta. Bul. 147.

The Results of a survey to determine the cost of producing beef in California. R. L. Adams. 1924. 22 p. Calif. Agr. Expt. Sta. Circ. 281.

#### IV. ECONOMICS (Cont'd)

##### 2. Ranch Organization, Methods, and Cost of Production (Cont'd)

- Sheep ranching in Utah.. Report of a preliminary economic survey of the ranch situation as of 1925. A. C. Esplin, William Peterson, P. V. Cardon, George Stewart, and K. C. Ikeler. 1928. 60 p. Utah Agr. Expt. Sta. Bul. 204.
- A Study of ranch organization and methods of range-cattle production in the northern Great Plains region. M. L. Wilson, R. H. Wilcox, G. S. Klemmedson, and V. V. Parr. 1928. 92 p. U. S. Dept. Agr. Tech. Bul. 45.
- A Study of ranch organization in eastern Colorado. R. T. Burdick, Martin Reinholdt, and G. S. Klemmedson. 1928. 61 p. Colo. Agr. Expt. Sta. Bul. 327.
- A Survey of sheep production on 200 farms in northeastern North Dakota and northwestern Minnesota, and the general sheep situation. R. D. Jennings. 1925. 58 p. N. D. Agr. Expt. Sta. Bul. 186.
- A Survey of the cattle industry in the Nebraska sand hills. Harold Hedges. 1926. 22 p. Nebr. Agr. Expt. Sta. Bul. 215.

##### 3. Marketing.

- Accounting records and business methods for live-stock shipping associations. Frank Robotka. 1923. 51 p. U. S. Dept. Agr. Bul. 1150.
- Cattle marketing investigations at Portland, Oregon. H. A. Lindgren and E. L. Potter. 1927. [16] p. Oreg. Agr. Expt. Sta. Bul. 229.
- Consumer habits and preferences in the purchase and consumption of meat. K. B. Gardner and L. A. Adams. 1926. 64 p. U. S. Dept. Agr. Bul. 1443.
- Cooperative livestock shipping associations. S. W. Doty and others. 1926. 28 p. U. S. Dept. Agr. Farmers' Bul. 1502.
- Co-operative marketing of live stock. R. W. Clark. 1918. 13 p. Colo. Agr. Coll. Ext. Bul. 148.  
Part of this bulletin is issued also as Oklahoma Agr. Coll. Ext. [Circ. 122]
- Co-operative marketing of livestock in Nebraska. Harold Hedges and H. C. Filley. 1925. 38 p. Nebr. Agr. Expt. Sta. Bul. 209.
- Cooperative marketing of livestock in the United States by terminal associations. C. G. Randell. 1928. 112 p. U. S. Dept. Agr. Tech. Bul. 57.
- Co-operative wool market. J. C. Holmes. 1921. 15 p. S. D. Coll. Agr. Ext. Circ. 34.
- Federal supervision of live stock markets. L. D. Hall. 1920. U. S. Dept. Agr. Yearbook, 1919, p. 239-248. (Y. B. Sep. 809)



#### IV. ECONOMICS (Cont'd)

##### 3. Marketing. (Cont'd)

- Government market reports on live stock and meats. James Atkinson. 1919.  
U. S. Dept. Agr. Yearbook, 1918, p. 379-398. (Y.B. Sept. 788)
- Market classes and grades of cattle. D. J. Slater. 1927. 88 p. U. S. Dept. Agr. Dept. Bul. 1464.
- Market classes and grades of dressed lamb and mutton. W. C. Davis and J. A. Burgess. 1927. 48 p. U. S. Dept. Agr. Dept. Bul. 1470.
- Market classes and grades of livestock. C.E. Gibbons. 1926. 47 p. U. S. Dept. Agr. Dept. Bul. 1360.
- Organizing cooperative associations. J. E. Boyle. 24 p. N. D. Agr. Expt. Sta. Circ. 16.  
Live stock shipping associations: p. 16-18.
- The Shrinkage in weight of beef cattle in transit. 1913. 76 p. U. S. Dept. Agr. Bul. 25.  
Contents: I. Southwestern shrinkage work of 1910-11. By W. F. Ward; II. Northwestern shrinkage work of 1911-12. By J. E. Downing; III. Northwestern and southwestern shrinkage work of 1911. By W. F. Ward; IV. Summary of the three years' shrinkage work. By W. F. Ward.
- A System of accounts for live-stock shipping associations. J. R. Humphrey and W. H. Kerr. 1916. 15 p. U. S. Dept. Agr. Bul. 403.
- The 28-hour law regulating the interstate transportation of live stock: its purpose, requirements, and enforcement. Harry Goding and A. J. Raub. 1918. 20p. U. S. Dept. Agr. Bul. 589.

##### 4. Livestock and Meat Statistics

- Food animals and meat consumption in the United States. John Roberts. 1926. 23 p. U. S. Dept. Agr. Dept. Circ. 241, rev.
- The Livestock review for 1927. H. M. Conway. 1928. 45 p. U. S. Dept. Agr. Misc. Pub. 28.
- Sheep, lamb, mutton, and wool statistics, year ended March 31, 1923, with comparable data for earlier years. 1924. 100 p. U. S. Dept. Agr. Statistical Bul. 3.
- South Dakota farm production and prices, 1890-1926, with annual summary for 1925-1926. O. L. Dawson. 1927. 111 p. S. D. Agr. Expt. Sta. Bul. 225.  
Livestock: p. 31-39.
- Statistics of cattle, calves, beef, veal, hides and skins, year ended Dec. 31, 1925, with comparable data for earlier years. 1927. 314 p. U. S. Dept. Agr. Statistical Bul. 20.

## V. EQUIPMENT.

### 1. General.

- A Comparison of sheep branding paints. C. J. Oviatt. 1912. 8 p. Wyo. Agr. Expt. Sta. Bul. 93.
- Electric hay hoists. H. L. Garver. 1928. 16 p. Wash. Agr. Expt. Sta. Pop. Bul. 139.
- Equipment for farm sheep raising. V. O. McWhorter. 1917. 27 p. U. S. Dept. Agr. Farmers' Bul. 810.
- Farm building ventilation. R. L. Patty. 1920. 12 p. S. D. Agr. Coll. Ext. Circ. 31.
- Livestock equipment for Wyoming. F. S. Hultz. 1923. 30 p. Wyo. Coll. Agr. Ext. Serv. Wyo. Farm Bul. v. 11, no. 3, Apr. 1923.
- Ranch equipment issue. 1919. p. 81-100. Wyo. Coll. Agr. Ext. Serv. Wyo. Farm Bul. v. 8, no. 6-7, Dec. 1918-Jan. 1919.
- Some stock ranch accessories. H. F. Murdock and Howard Welch. 1919. p. 85-100. Mont. Agr. Expt. Sta. Circ. 84.

### 2. Barns and Sheds.

- Beef-cattle barns. E. W. Sheets and M. A. R. Kelley. 1923. 17 p. U. S. Dept. Agr. Farmers' Bul. 1350.
- Lambing sheds. R. F. Miller and G. E. Fernery. 1917. 16 p. Calif. Agr. Expt. Sta. Circ. 188.
- A Serviceable farm barn. R. L. Patty. 1920. 20 p. S. D. Coll. Agr. Ext. Circ. 32.

### 3. Concrete.

- Concrete construction on the live-stock farm. 1922. 32 p. U. S. Dept. Agr. Farmers' Bul. 481 [rev.]
- Plain concrete for farm use. T. A. H. Miller. 1922. 27 p. U. S. Dept. Agr. Farmers' Bul. 1279.
- Small concrete construction on the farm. M. C. Betts and T. A. H. Miller. 1926. 33 p. U. S. Dept. Agr. Farmers' Bul. 1480.

### 4. Fences.

- The corrosion of fence wire. A. S. Cushman. 1905. 31 p. U. S. Dept. Agr. Farmers' Bul. 239.

V. EQUIPMENT (Cont'd)

4. Fences (Cont'd)

Information in regard to fabricated wire fences and hints to purchasers. A. S. Cushman. 1910. U. S. Dept. Agr. Yearbook, 1909, p. 285-292. (Y. B. Sep. 513)

5. Silos.

(See also VII. Feeding Stuffs, p. 40; VIII, 5. Silage, p. 58)

Build a silo and save the silage. 1918. 8 p. Tex. Agr. Coll. Ext. Circ. C.-6

Cement silo construction. The monolithic silo, by G. S. Hine. The metal-lath silo, by G. G. Wheeler. 1912. 76 p. Kans. Agr. Coll. Agr. Educ. v. 4, no. 6.

Constructing a wooden hoop silo. A. B. Crane and W. W. Henry. 1926. 16 p. Wash. State Coll. Ext. [Bul.] 141.

Facts about silos for New Mexico: R. W. Latta. 1915. 4 p. N. M. Coll. Agr. Ext. Circ. 2.

Handling silage. L. W. Chase and I. D. Wood. 1914. 25 p. Nebr. Agr. Expt. Sta. Bul. 145.

Much of the same material is published in Nebr. Coll. Agr. Ext. Bul. 45.

Homemade silos. Helmer Rabild and K. E. Parks. 1917. 55 p. U. S. Dept. Agr. Farmers' Bul. 855.

The Home made stave silo. J. N. Price. 1916. 16 p. Wash. State Coll. Ext. [Bul.] 24.

How to build a stave silo. B. H. Rawl and J. A. Conover. 1909. 18 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 136.

Pit and trench silos. R. L. Patty. 1927. 15 p. S. D. Coll. Agr. Ext. Circ. 264.

Pit, semi-pit, and bunk silos. L. W. Chase. 1923. 16 p. Nebr. Coll. Agr. Ext. Circ. 720.

The Pit silo. J. W. Sjogren. 1923. 12 p. Colo. Agr. Expt. Sta. Bul. 288.

The Pit silo. Christian Larsen. 1914. p. 81-96. S. D. Agr. Expt. Sta. Bul. 154.

The Pit silo for western Kansas. Clyde McKee. 1913. 12 p. Kans. Agr. Coll. Agr. Educ. v. 5, no. 14.

Pit silos. T. P. Metcalfe and G. A. Scott. 1923. 12 p. U. S. Dept. Agr. Farmers' Bul. 825, rev.

Pit silos and how to make them. A. L. Paschall. 1916. [28] p. Ariz. Coll. Agr. Ext. Serv. Circ. 8.





## VI. FEEDING.

(See also VII. Feeding Stuffs, p. 40; VIII, 5, Forage, p. 58)

### 1. General.

Alfalfa for the growing and fattening of animals in Great Plains region.

I. D. Graham. 1905. p. 242-267. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 86.

Reprint from 21st Annual report of Bureau (1904)

The Computation of rations for farm animals by the use of energy values. H.P. Armsby. 1909. 32 p. U. S. Dept. Agr. Farmers' Bul. 346.

The Exact calculation of balanced rations. J. T. Willard. 1902. p. 97-146. Kans. Agr. Expt. Sta. Bul. 115.

Feeding alfalfa hay. Jerry Sotola. 1927. 35 p. Washin. Agr. Expt. Sta. Bul. 220.

Feeding cottonseed products to livestock. E. W. Sheets and E. H. Thompson. 1923. 20 p. U. S. Dept. Agr. Farmers' Bul. 1179, rev.

Feeding for meat production. H. P. Ormsby. 1908. 89 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 103.

Feeding grain sorghums to livestock. C. A. Scott. 1924. 10 p. U. S. Dept. Agr. Farmers' Bul. 724, rev.

A Handbook for better feeding of livestock. E. W. Sheets and William Jackson. 1926. 56 p. U. S. Dept. Agr. Misc. Circ. 12, rev.

How to use sorghum grain. C. R. Ball and B. E. Rothgeb. 1918. 18 p. U. S. Dept. Agr. Farmers' Bul. 972.

A Method of calculating economical balanced rations. J. C. Rundles. 1918. 19 p. U. S. Dept. Agr. Bul. 637.

Rations for hogs, dairy cows, beef cattle, horses and sheep. [1925?] 8 p. Okla. Agr. Expt. Sta. Circ. 57.

Silage feeding. C. I. Bray. 1914. 18 p. Okla. Agr. Expt. Sta. Circ. 36.

Sorghum as a forage and grain ration for sheep. F. W. Wilson. 1910. 4 p. Ariz. Agr. Expt. Sta. Timely hints for farmers 84.

Uses of sorghum grain. C. R. Ball and B. E. Rothgeb. 1915. 16 p. U. S. Dept. Agr. Farmers' Bul. 686.

Utilization of alfalfa. R. A. Oakley and H. L. Westover. 1925. 36 p. U. S. Dept. Agr. Farmers' Bul. 1229.

## VI. FEEDING (Cont'd)

### 1. General (Cont'd)

Utilization of farm wastes in feeding livestock. S. H. Ray. 1917. U. S. Dept. Agr. Farmers' Bul. 873.

Worth and uses of silos and silage. 1914. Kans. State Bd. Agr. Rept. quarter ending Mar. 1914. v. 33, no. 129, p. 111-380.

### 2. Maintenance.

#### a. Beef Cattle.

Certain desert plants as emergency stock feed. E. O. Wooton. 1918. 31 p. U. S. Dept. Agr. Bul. 728.

Chamiza as an emergency feed for range cattle. Luther Foster, J. L. Lantow, and C. P. Wilson. 1921. 29 p. N. M. Agr. Expt. Sta. Bul. 125.

Chopped soapweed as emergency feed for cattle on southwestern ranges. C. L. Forsling. 1919. 20 p. U. S. Dept. Agr. Bul. 745.

Emergency forage crops. D. C. Brodie. 1911. 4 p. U. S. Dept. Agr. Off. Sec. Circ. 36.

Feeding prickly pear to stock in Texas. David Griffiths. 1906. 23 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 91.

Feeding yucca to starving cattle. R. H. Williams. 1918. 10 p. Ariz. Coll. Agr. Ext. Serv. Circ. 21.

Influence of the plane of nutrition on the maintenance requirement of cattle. F. B. Mumford, A. G. Hogan, and W. D. Salmon. 1921. U. S. Dept. Agr. Jour. Agr. Research, 22; 115-121. (Mo. 5)

The Maintenance rations of farm animals. H. P. Armsby. 1912. 110 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 143.

Native cacti as emergency forage plants, by J. J. Thornber. Nutritive value of cholla fruit, by A. E. Vinson. 1911. p. 457-519. Ariz. Agr. Expt. Sta. Bul. 67.

Preliminary report on range cow supplemental feeding. J. L. Lantow and M. G. Shell. 1924. 8 p. N. M. Agr. Expt. Sta. Bul. 144.

Preliminary report on the supplemental feeding of range cattle in New Mexico. J. L. Lantow. 1927. 13 p. N. M. Agr. Expt. Sta. Bul. 161.

The Prickly pear and other cacti as food for stock. David Griffiths. 1905. 48 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 74.

## VI. FEEDING (Cont'd)

### 2. Maintenance (Cont'd)

#### a. Beef Cattle (Cont'd)

Prickly pear as stock feed. David Griffiths. 1920. 24 p. U. S. Dept. Agr. Farmers' Bul. 1072.

Range and cattle management during drought. J. T. Jardine and C. L. Forsling. 1922. 83 p. U. S. Dept. Agr. Bul. 1031.

Range cow maintenance on yucca and sotol. Luther Foster and C. W. Humble. 1918. 27 p. N. M. Agr. Expt. Sta. Bul. 114.

Saving livestock from starvation on southwestern ranges. C. L. Forsling. 1924. 22 p. U. S. Dept. Agr. Farmers' Bul. 1428.

Soapweed or palmilla (Yucca elata) as emergency fodder. J. J. Thornber. 1918. 7 p. Ariz. Agr. Expt. Sta. Timely hints for farmers 135.

The Utility of yucca and chamiza as range supplements. I. Soapweed (Yucca elata). II. Chamiza (Atriplex canescens) L. S. Brown. 1922. 38 p. N. M. Agr. Expt. Sta. Bul. 133.

The Utilization of yucca for the maintenance of cattle. J. M. Jones and A. B. Conner. 1918. 23 p. Tex. Agr. Expt. Sta. Bul. 240.

### 3. Wintering

#### a. Beef Cattle

Pt. I. Carrying steers through the winter. Pt. II. Sugar beets for fattening steers. W. L. Carlyle and G. E. Morton. 1909. 15 p. Colo. Agr. Expt. Sta. Bul. 149.

Cattle feeding. I. Oat and pea silage in maintenance rations for steers. II. Oat and pea silage for beef cows. III. Oat and pea silage for growing cattle. A. D. Faville. 1915. p. 29-42. Wyo. Agr. Expt. Sta. Bul. 108.

Effect of winter rations on subsequent pasture gains of steers. E. W. Sheets. 1924. U. S. Dept. Agr. Jour. Agr. Research., 28: 1215-1232. (A-78)

Growing cattle in western Nebraska. W. P. Snyder. 1908. 23 p. Nebr. Expt. Sta. Bul. 105.

Homegrown feeds for range steers. F. A. Hays. 1921. p. 53-75. Wyo. Agr. Expt. Sta. Bul. 128.

Winter feeding beef breeding cows. C. N. Arnett. 1927. 10 p. Mont. Agr. Expt. Sta. Bul. 211.



## VI. FEEDING (Cont'd)

### 3. Wintering (Cont'd)

#### a. Beef Cattle (Cont'd)

Winter feeding beef calves. C. N. Arnett, R. C. McChord, and J. O. Tretsven. 1925. 29 p. Mont. Agr. Expt. Sta. Bul. 176.

Winter feeding of beef cattle. C. N. Arnett. 1919.. 7 p. Mont. Agr. Expt. Sta. Circ. 85.

Wintering beef calves and yearlings in northern Montana. C. N. Arnett, A. L. Baker, and L. Vinke. 1926. 29 p. Mont. Agr. Expt. Sta. Bul. 188.

Wintering beef cows in northern Montana. C. N. Arnett, A. L. Baker, and L. Vinke. 1926. 35 p. Mont. Agr. Expt. Sta. Bul. 187.

Wintering range calves. F. S. Hultz. 1925. 16 p. Wyo. Agr. Expt. Sta. Bul. 134.

Wintering stock steers. E. L. Potter and Robert Withycombe. 1926. [16] p. Oreg. Agr. Expt. Sta. Bul. 224.

#### b. Sheep

Comparative rations for wintering breeding ewes. S. F. Russell. 1919. 8 p. Okla. Agr. Expt. Sta. Bul. 125.

Sheep feeding investigation. Wintering breeding ewes. Ninety day test, December 29 to March 30. A. E. Darlow. 1922. 8 p. Okla. Agr. Expt. Sta. Bul. 142.

Sheep feeding investigations, comparative rations for wintering breeding ewes. A. E. Darlow. 1921. 7 p. Okla. Agr. Expt. Sta. Bul. 136.

Winter feeding of breeding ewes. W. E. Joseph. 1924. 16 p. Mont. Agr. Expt. Sta. Bul. 164.

Winter lamb feeding, 1919-20, 1920-21, 1921-22. W. H. Savin. 1923. 23 p. Nebr. Agr. Expt. Sta. Bul. 197.

### 4. Growing

#### a. Beef Cattle

Beef cattle feeding experiments. H. Hackedorn, Jerry Sotola, and R. P. Bean. 1924. 26 p. Wash. Agr. Expt. Sta. Bul. 186.

## VI. FEEDING (Cont'd)

### 4. Growing (Cont'd)

#### a. Beef Cattle (Cont'd)

- Beef cattle feeding trials, 1921-24. C. E. Howell. 1927. 12 p. Calif. Agr. Expt. Sta. Bul. 421.
- Beef production. Pt. I. Comparison of rations. Pt. II. Comparison of breeds and types. H. R. Smith. 1912. 50 p. Nebr. Agr. Expt. Sta. Bul. 132.
- Cattle feeding. Oat and pea silage for beef cows. Oat and pea silage for growing cattle. A. D. Faville. 1917. p. 53-64. Wyo. Agr. Expt. Sta. Bul. 117.
- Corn silage and mill products for steers. J. W. Wilson and G. E. Youngberg. 1914. p. 328-344. S. D. Agr. Expt. Sta. Bul. 148.
- Corn silage and roots for steers. J. W. Wilson. 1912. p. 353-367. S. D. Agr. Expt. Sta. Bul. 137.
- I. Cottonseed cake vs. cold pressed cake for beef cows. II. Mixed grains vs. cottonseed cake for growing beef cattle. A. D. Faville. 1915. 11 p. Wyo. Agr. Expt. Sta. Bul. 106.
- Experiments with hand-fed calves. D. H. Otis. 1904. p. 163-198. Kans. Agr. Expt. Sta. Bul. 126.
- Feeding experiments with grade beef cows raising calves. I. Rations, gains and losses in weight, and calves produced. II. Costs of the rations and of raising calves to weaning age. E. W. Sheets and R. H. Tuckwiller. 1922. 17 p. U. S. Dept. Agr. Bul. 1024.
- The influence of type and of age upon the utilization of feed by cattle. H. P. Armsby and J. A. Fries. 1911. 245 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 128.
- The Utilization of feed by range steers of different ages. I. Alfalfa hay. F. W. Christensen and H. H. Simpson. 1914. 123 p. N. M. Agr. Expt. Sta. Bul. 91.
- The Utilization of feed by range steers of different ages. II. Alfalfa hay and milo maize meal. F. W. Christensen, H. H. Simpson, and Luther Foster. 1916. 117 p. N. M. Agr. Expt. Sta. Bul. 103.
- The Utilization of feed by range steers of different ages. III. Alfalfa hay, and cottonseed meal. IV. Alfalfa hay, milo maize meal and cottonseed meal. J. D. Hungerford and Luther Foster. 1921. 92 p. N. M. Agr. Expt. Sta. Bul. 128.

## VI. FEEDING (Cont'd)

### 4. Growing (Cont'd)

#### a. Beef Cattle (Cont'd)

The Utilization of feed by range steers of different ages. (Popular ed. of Bul. 91, 103, 128) M. G. Snell. 1923. 7 p. N. M. Agr. Expt. Sta. Bul. 140.

#### b. Sheep.

Feeding experiments, 1910-11. [Feeding Wyoming-grown grain to lambs] A. D. Faville. 1911. 11 p. Wyo. Agr. Expt. Sta. Bul. 89.

Feeding experiments with lambs, 1908-9, 1909-10, 1910-11. Alfalfa meal for feeding lambs. Ration experiments with lambs. Loss caused by dogs among lambs. G. E. Morton. 1913. 16 p. Colo. Agr. Expt. Sta. Bul. 187.

Lamb feeding experiments. J. L. Lantow, and M. G. Snell. 1923. 12 p. N. M. Agr. Expt. Sta. Bul. 138.

Lamb feeding experiments at the irrigation branch station. H. Hackedorn, R. P. Bean, and J. Sotola. 1922. [24] p. Wash. Agr. Expt. Sta. Bul. 170.

Lamb feeding experiments at the irrigation branch experiment station. H. Hackedorn, R. P. Bean, and Jerry Sotola. 1924. 42 p. Wash. Agr. Expt. Sta. Bul. 185.

A Method of feeding orphan lambs. W. E. Carroll. 1918. 8 p. Utah Agr. Expt. Sta. Circ. 33.

Nature and rate of growth of lambs during the first year. E. G. Ritzman. 1917. U. S. Dept. Agr. Jour. Agr. Research, 11: 607-624. (N.H.-4)

### 5. Fattening

#### a. General

Sugar-beet by-products for fattening livestock. E. J. Maynard and B. W. Fairbanks. 1928. 19 p. Colo. Agr. Coll. Ext. Bul. 269-A

#### b. Beef Cattle

Alfalfa silage for fattening steers. G. H. True, F. W. Woll, and V. F. Dolcini. 1915. 4 p. Calif. Agr. Expt. Sta. Circ. 124.

Baby beef. Luther Foster and E. J. Maynard. 1918. 15 p. N. M. Agr. Expt. Sta. Bul. 112.

Baby beef. E. E. Scholl. 1913. 58 p. Tex. Dept. Agr. Bul. 30.



VI. FEEDING (Cont'd)

5. Fattening (Cont'd)

b. Beef Cattle (Cont'd)

- Beef production. H. J. Gramlich. 1919. 22 p. Nebr. Agr. Expt. Sta. Bul. 174.
- Cattle feeding in Arizona. E. B. Stanley and E. L. Scott. 1925. 41 p. Ariz. Agr. Expt. Sta. Bul. 108.
- Cattle feeding investigation. W. L. Blizzard. 1920. 7 p. Okla. Agr. Expt. Sta. Bul. 134.
- Cattle feeding investigations. [Baby beef] W. L. Blizzard. [1923] 8 p. Okla. Agr. Expt. Sta. Bul. 149.
- Cattle feeding investigations. Finishing baby beef. W. L. Blizzard. [1923] 8 p. Okla. Agr. Expt. Sta. Bul. 147.
- Cattle-feeding investigations, 1918/19-1925/26. 1919-26. Kans. Agr. Expt. Sta. Circ. 77, 86, 92, 97, 105, 117, 128, 130. 1922/23 (Circ. 105) has title; Silage feeding investigations.
- Corn and millet silage for fattening cattle. J. W. Wilson and A. H. Kuhlman. 1920. p. 205-220. S. D. Agr. Expt. Sta. Bul. 189.
- Corn silage and alfalfa hay for beef production. R. K. Bliss and C. B. Lee. 1915. 43 p. Nebr. Agr. Expt. Sta. Bul. 151.
- Fattening beef calves. S. H. Ray. Rev. by A. T. Semple. 1924. 13 p. U. S. Dept. Agr. Farmers' Bul. 1416.
- Fattening calves in Arizona. E. B. Stanley and E. L. Scott. 1926. p. 315-336. Ariz. Agr. Expt. Sta. Bul. 116.
- Fattening native steers for market: 1920. R. H. Williams. 1920. 396 p. Ariz. Agr. Expt. Sta. Bul. 91.
- The Fattening of steers on dry-land crops. J. L. Lantow, W. H. Black, and D. R. Burnham. 1926. 17 p. N. M. Agr. Expt. Sta. Bul. 156.
- Fattening steers. E. L. Potter and Robert Withycombe. 1922. 18 p. Oreg. Agr. Expt. Sta. Bul. 193.
- Fattening steers of different ages. J. W. Wilson. 1911. p. 57-72. S. D. Agr. Expt. Sta. Bul. 125.

VI. FEEDING(Cont'd)

5. Fattening (Cont'd)

b. Beef cattle (Cont'd)

Fattening steers on barley and rejected wheat. J. H. Shepperd and W. B. Richards. 1906. p. 237-258. N. D. Agr. Expt. Sta. Bul. 73.

I. Fattening steers on cottonseed meal and hulls with and without corn.

II. The influence of age on fattening steers. J. M. Jones, J. L. Lush, and J. H. Jones. 1923. 31 p. Tex. Agr. Expt. Sta. Bul. 309.

Fattening steers on dry-land crops of the Southwest. W. H. Black, J. L. Lantow, and D. R. Burnham. 1927. 15 p. U. S. Dept. Agr. Tech. Bul. 30.

Fattening steers on velvet beans. S. W. Greene, and A. T. Sémple. 1925. 26 p. U. S. Dept. Agr. Dept. Bul. 1333.

Fattening yearling steers on dry-farms. R. H. Williams, E. B. Stanley, and C. A. Smith. 1925. p. 61-82. Ariz. Agr. Expt. Sta. Bul. 110.

Feeding baby beef. Forage and grain rations for fattening calves under western Nebraska conditions. W. P. Snyder. 1914. 39 p. Nebr. Agr. Expt. Sta. Bul. 143.

Feeding baby beeves. J. C. Burns. 1916. 21 p. Tex. Agr. Expt. Sta. Bul. 198.

Feeding beef cattle in California. H. R. Guilbert. 1926. 19 p. Calif. Agr. Ext. Serv. Circ. 3.

Feeding cattle for beef. W. H. Black. 1928. U. S. Dept. Agr. Farmers' Bul. 1549.

Feeding cotton seed and cotton seed products to range steers. E. B. Stanley. 1921. p. 481-491. Ariz. Agr. Expt. Sta. Bul. 93.

Feeding experiments with steers and hogs. J. T. Cruse. 1911. 25 p. Tex. Agr. Expt. Sta. Bul. 135.

The Feeding of dry-farm crops to range steers in eastern New Mexico. J. L. Lantow and H. J. Clemmer. 1922. 10 p. N. M. Agr. Expt. Sta. Bul. 131.

Feeding range steers. Luther Foster and H. H. Simpson. 1916. 24 p. N. M. Agr. Expt. Sta. Bul. 101.

Flesh and fat in beef. D. H. Otis. 1903. p. 135-212. Kans. Agr. Expt. Sta. Bul. 118.

VI. FEEDING (Cont'd)

5. Fattening (Cont'd)

b. Beef cattle (Cont'd)

Grain sorghums versus corn for fattening baby beeves. J. M. James, R. A. Brewer, and R. E. Dickson. 1922. 25 p. Tex. Agr. Expt. Sta. Bul. 296.

Grass fat cattle warmed upon corn fodder with a straw shed as shelter. J. H. Shepperd. 1920. 8 p. N. D. Agr. Expt. Sta. Bul. 140.

Pea straw for fattening beef cattle. H. Hackedorn and J. Sotola. 1920. 24 p. Wash. Agr. Expt. Sta. Bul. 157.

Preparations of hegari for finishing yearling steers. R. H. Williams and C. A. Smith. 1925. p. 411-436. Ariz. Agr. Expt. Sta. Bul. 107.

Quality in beef. H. M. Cottrell and V. M. Shoesmith. 1902. 24 p. Kans. Agr. Expt. Sta. Bul. 111.

Rations for fattening cattle. J. C. Burns. 1915. 8 p. Tex. Agr. Coll. Ext. Bul. B-9.

Rations for fattening steers. J. C. Burns. 1920. 19 p. Tex. Agr. Expt. Sta. Bul. 263.

Contents: (1) Cotton seed meal vs. peanut meal. (2) Cold pressed cotton seed vs. ground whole pressed peanuts. (3) Sorghum silage vs. cotton seed hulls.

Shelter and warm water for fattening steers. E. L. Potter and Robert Withycombe. 1921. 11 p. Oreg. Agr. Expt. Sta. Bul. 183.

Silage and grains for steers. J. W. Wilson. 1915. p. 193-224. S. D. Agr. Expt. Sta. Bul. 160.

Soft corn for fattening cattle. J. W. Wilson, and A. L. Bushey. 1926. 18 p. S. D. Agr. Expt. Sta. Bul. 219.

Sorgo silage, sorgo fodder and cottonseed hulls as roughages in rations for fattening calves. J. M. Jones, W. H. Black, and F. E. Keating. 1927. 36 p. Tex. Agr. Expt. Sta. Bul. 363.

Practically the same material is published in U. S. Dept. Agr. Tech. Bul. 43.

Steer feeding. J. C. Burns, C. N. Kennedy, and C. S. Scharff. 1913. 34 p. Tex. Agr. Expt. Sta. Bul. 159.

Contents: Silage compared with cotton seed hulls, and cotton seed meal compared with cotton seed for fattening cattle. Sorghum hay compared with cotton seed hulls for fattening cattle.

Steer feeding. J. C. Burns. 1915. 16 p. Tex. Agr. Expt. Sta. Bul. 182.



VI. FEEDING (Cont'd)

5. Fattening (Cont'd)

b. Beef Cattle (Cont'd)

Steer feeding experiments J. E. Nordby. 1920. 4 p. Idaho Agr. Expt. Sta. Circ. 15.

Steer feeding experiments, 1920-1921. C. W. Hickman, E. F. Rinehart, and A. W. Johnson. 1921. 4 p. Idaho Agr. Expt. Sta. Circ. 18.

Steer feeding experiments, 1921-1922. C. W. Hickman, and E. F. Rinehart. 1922. 8 p. Idaho Agr. Expt. Sta. Circ. 28.

Steer feeding experiments. C. W. Hickman, and E. F. Rinehart. 1923. [4] p. Idaho Agr. Expt. Sta. Circ. 31 [i.e. 32]

Steer feeding in Colorado. C. I. Bray. 1922. 39 p. Colo. Agr. Coll. [Ext. Bul.] 195-A.

Steer feeding; small grains and clover hay for two year old steers. R. W. Clark. 1910. p. 37-48. Mont. Agr. Expt. Sta. Bul. 78.

A Study of various rations for finishing range calves as baby beeves. H.R. Guilbert. 1927. 19 p. Calif. Agr. Expt. Sta. Bul. 418.

A Test of the relative values of cotton seed meal and silage, and cotton seed meal and cotton seed hulls for fattening cattle. J. C. Burns and T. P. Metcalfe. 1912. 14 p. Tex. Agr. Expt. Sta. Bul. 153.

The Utilization of dry farm crops in beef production. Luther Foster, and H. G. Smith. 1917. 34 p. N. M. Agr. Expt. Sta. Bul. 108.

c. Sheep

Alfalfa and corn for fattening lambs. H. H. Simpson. 1911. 18 p. N. M. Agr. Expt. Sta. Bul. 79.

Beet by-products for fattening lambs. E. J. Maynard. 1921. 12 p. Colo. Agr. Expt. Sta. Bul. 266.

Corn silage for lambs. J. W. Wilson. 1916. p. 376-390. S. D. Agr. Expt. Sta. Bul. 165.

Corn supplements and substitutes for fattening lambs. H. D. Fox. 1926. 22 p. Nebr. Agr. Expt. Sta. Bul. 211.

Corn versus barley in lamb rations; methods of feeding barley to lambs. A. D. Faville. [1913?] 7 p. Wyo. Agr. Expt. Sta. Bul. 103.

Fall lamb feeding. H. J. Gramlich. 1918. 28 p. Nebr. Agr. Expt. Sta. Bul. 170.

VI. FEEDING (Cont'd)

5. Fattening (Cont'd)

c. Sheep (Cont'd)

- Fattening lambs. J. M. Jones. 1916. 15 p. Tex. Agr. Expt. Sta. Bul. 186.
- Fattening lambs. J. W. Wilson. 1910. p. 643-648. S. D. Agr. Expt. Sta. Bul. 119.
- Fattening lambs for the late winter market. H. K. Dean and E. L. Potter. 1925. 10 p. Oreg. Agr. Expt. Sta. Bul. 218.
- Fattening lambs in Arizona. E. B. Stanley and E. L. Scott. 1925. p. 43-60. Ariz. Agr. Expt. Sta. Bul. 109.
- Fattening lambs on alfalfa. E. L. Potter and H. K. Dean. 1923. 16 p. Oreg. Agr. Expt. Sta. Bul. 198.
- Fattening lambs - shelter versus open lot. Robert Withycombe and E. L. Potter. 1920. 11 p. Oreg. Agr. Expt. Sta. Bul. 175.
- Fattening lambs with barley and alfalfa. C. E. Fleming. 1924. 14 p. Nev. Agr. Expt. Sta. Bul. 106.
- Fattening western lambs. H. D. Fox. 1924. 24 p. Nebr. Agr. Expt. Sta. Bul. 204.
- Feeding lambs in the fall. H. J. Gramlich. 1918. 16 p. Nebr. Agr. Expt. Sta. Bul. 167.
- Grain sorghums vs. corn for fattening lambs. J. M. Jones, R. A. Brewer and R. E. Dickson. 1920-28. Tex. Agr. Expt. Sta. Bul. 269, 285, 306, 379.
- Lamb and sheep feeding experiments. E. J. Iddings. 1916. 14 p. Idaho Agr. Expt. Sta. Bul. 89.
- Lamb feeding experiments. C. W. Hickman, E. F. Rinehart, and A. W. Johnson. 1921. [4] p. Idaho Agr. Expt. Sta. Circ. 19.
- Lamb feeding experiments. 1921-1922. C. W. Hickman and E. F. Rinehart. 1922. 8 p. Idaho Agr. Expt. Sta. Circ. 29.
- Lamb feeding experiments in the sugar beet growing districts. J. A. Holden, 1926. 21 p. Nebr. Agr. Expt. Sta. Bul. 216.
- Lamb feeding experiments in western Nebraska. J. A. Holden. 1923. 35 p. Nebr. Agr. Expt. Sta. Bul. 194.
- Lamb feeding experiments. Pt. I. Fattening western lambs. Pt. II. Fattening native lambs. Pt. III. A comparison of native and Western lambs. H. J. Gramlich. 1915. 26 p. Nebr. Agr. Expt. Sta. Bul. 153.

VI. FEEDING (Cont'd)

5. Fattening (Cont'd)

c. Sheep (Cont'd)

Lamb feeding investigations. 1919, 1919-20, 1922-23, 1923-24, 1925-26.  
1919-26. Kans. Agr. Expt. Sta. Circ. 79, 88, 109, 123, 131.

Native feeds for fattening lambs. F. A. Hays. 1922. 16 p. Wyo. Agr.  
Expt. Sta. Bul. 130.

Roughage for fattening lambs. J. W. Wilson. 1913. p. 185-199. S. D.  
Agr. Expt. Sta. Bul. 143.

Sheep feeding. J. A. Craig. 1897. 24 p. U. S. Dept. Agr. Farmers'  
Bul. 49.

Sheep feeding. I. (a) Oat and pea silage for fattening lambs. (b) Corn  
vs. barley for fattening lambs. II. Oat and pea silage for breeding  
ewes. III. Oat and pea silage for ram lambs. A. D. Faville. 1915.  
p. 45-59. Wyo. Agr. Expt. Sta. Bul. 109.

Sheep feeding investigations, 1920-21. A. M. Paterson and H. B.  
Winchester. 1922. 7 p. Kans. Agr. Expt. Sta. Circ. 96.

Sheep feeding investigations, comparative rations for fattening wether  
lambs. W. T. Magee and A. E. Darlow. 1920. [4] p. Okla. Agr. Expt.  
Sta. Bul. 133.

Sheep feeding investigations, comparative rations for fattening wether lambs.  
A. E. Darlow. [1923] 7 p. Okla. Agr. Expt. Sta. Bul. 146.

Sheep feeding trials at Williston substation. W. H. Peters and C. H.  
Ruzicka. 1916. p. 298-316. N. D. Agr. Expt. Sta. Bul. 115.

Silage for fattening lambs. Robert Withycombe and E. L. Potter. 1921.  
Oreg. Agr. Expt. Sta. Bul. 184.

Some lamb-feeding results secured by the Kansas agricultural experiment  
station. A. M. Paterson. 1924. 8 p. Kans. Agr. Expt. Sta. Circ.  
108.

Supplementary feeds in fattening lambs. H. J. Gramlich. 1919. 24 p.  
Nebr. Agr. Expt. Sta. Bul. 173.



# VII. FEEDING STUFFS: COMPOSITION AND DIGESTIBILITY.

(See also VI. Feeding, p.28; VIII,5. Silage, p.58)

Acidity in relation to quality in sunflower silage. M. J. Blish. 1924.  
13 p. Mont. Agr. Expt. Sta. Bul. 163.

Acidity of silage made from various crops. R. E. Neidig. 1918. U. S.  
Dept. Agr. Jour. Agr. Research, 14: 395-409. (Idaho - 1)

Apple by-products as stock foods. G. P. Walton and G. L. Bidwell. 1923.  
39 p. U. S. Dept. Agr. Dept. Bul. 1166.

The Australian saltbush; its composition and digestibility. Notes on  
Russian thistle. W. P. Headden. 1908. 16 p. Colo. Agr. Expt.  
Sta. Bul. 135.

Bacteriological studies on alfalfa silage. O. W. Hunter. 1918. U. S.  
Dept. Agr. Jour. Agr. Research, 15: 571-592. (Kans.-16)

Bean feeding. C. P. Wilson and J. L. Lantow. 1926. 24 p. N. M. Agr.  
Expt. Sta. Bul. 155.

Beet top silage and other by-products of the sugar beet. J. W. Jones.  
1919. 24 p. U. S. Dept. Agr. Farmers' Bul. 1095.

Cattle feeding investigations; comparative value of silage for making  
beef. Silages used: sunflower, corn, kafir, cane and dorso. W. L.  
Blizzard. 1921. 6 p. Okla. Agr. Expt. Sta. Bul. 139.

A Chemical and structural study of mesquite, carob, and honey locust  
beans. G. P. Walton. 1923. 19 p. U. S. Dept. Agr. Dept. Bul.  
1194.

The Chemical composition of Washington forage crops (first report).  
R. W. Thatcher. 1905. 27 p. Wash. Agr. Expt. Sta. Bul. 72.  
---- (second report). 1907. Wash. Agr. Expt. Sta. Bul. 82, p. 3-18.

A Chemical study of broom corn and broom corn silage. C. T. Dowell and  
W. G. Friedemann. 1921. 7 p. Okla. Agr. Expt. Sta. Bul. 135.

Chemistry and sweet-clover silage in comparison with alfalfa silage. C. O.  
Swenson and E. L. Tague. 1918. U. S. Dept. Agr. Jour. Agr.  
Research, 15: 113-132. (Kans.-15)

The Comparative value of cottonseed meal and corn, as shown by chemical  
analyses. C. K. Francis. 1914. [4] p. Okla. Agr. Expt. Sta. Circ.37.

Composition and digestibility of Sudangrass hay. W. G. Gaessler and A.C.  
McCandlish. 1918. U. S. Dept. Agr. Jour. Agr. Research, 14: 176-  
185. (Iowa-6)

The composition and digestibility of Sudan grass hay, darso, darso silage,  
broom corn seed and sunflower silage. C. T. Dowell and W. G. Friedemann.  
1920. 8 p. Okla. Agr. Expt. Sta. Bul. 132.

VII. FEEDING STUFFS: COMPOSITION AND DIGESTIBILITY (Cont'd)

The Composition and feeding value of wheat by-products. G. S. Fraps.  
1921. 42 p. Tex. Agr. Expt. Sta. Bul. 282.

Composition of Arizona forages, with comparative data. C. N. Catlin.  
1925. p. 155-173. Ariz. Agr. Expt. Sta. Bul. 113.

Corn silage for beef production. J. W. Wilson and B. L. Thompson. 1918.  
12 p. S. D. Agr. Expt. Sta. Bul. 182.

Cottonseed products as feed, fertilizer, and human food. 1926. 28 p.  
Tex. Agr. Expt. Sta. Bul. 341.

Digestibility of corn silage, velvet-bean meal, and alfalfa hay when fed  
singly and in combinations. P. V. Ewing and F. H. Smith. 1918.  
U. S. Dept. Agr. Jour. Agr. Research, 13: 611-613. (Tex.-3)

Digestibility of kale, vetch, hay, steamed and unsteamed silage. James  
Withycombe and C. E. Bradley. 1908. 29 p. Oreg. Agr. Expt. Sta. Bul.  
102.

Digestibility of vetch hay and corn silage. James Withycombe and A. L.  
Knisely. 1905. 18 p. Oreg. Agr. Expt. Sta. Bul. 85.

Digestion experiments. G. S. Fraps. 1922. 16 p. Tex. Agr. Expt. Sta.  
Bul. 291.

Digestion experiments on the range. P. B. Kennedy and S. C. Dinsmore.  
1909. 38 p. Nev. Agr. Expt. Sta. Bul. 71.

Digestion experiments with native hay. S. C. Dinsmore and P. B. Kennedy.  
1907. 23 p. Nev. Agr. Expt. Sta. Bul. 64.

Digestion experiments with oat by-products and other feeds. G. S. Fraps.  
1924. [12] p. Tex. Agr. Expt. Sta. Bul. 315.

Digestion experiments with Texas feeding stuffs. G. S. Fraps. 1914. 26 p.  
Tex. Agr. Expt. Sta. Bul. 166.

Digestion experiments with Texas hays and fodders. G. S. Fraps. 1912.  
28 p. Tex. Agr. Expt. Sta. Bul. 147.

Effect of nitrate applications upon the hydrocyanic acid content of sorghum.  
R. M. Pinckney. 1924. U. S. Dept. Agr. Jour. Agr. Research, 27: 717-723.  
(Minn. - 49)

Experiments on the digestibility of prickly pear by cattle. R. F. Hare.  
1908. 38 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 106.

Experiments relating to the time of cutting alfalfa. S. C. Salmon, C. O.  
Swanson, and C. W. McCampbell. 1925. 50 p. Kans. Agr. Expt. Sta. Tech.  
Bul. 15.



VII. FEEDING STUFFS: COMPOSITION AND DIGESTIBILITY (Cont'd)

Factors influencing quality and composition of sunflower silage.

M. J. Blish. 1921. 22 p. Mont. Agr. Expt. Sta. Bul. 141.

Feeding values of certain feeding stuffs. G. S. Fraps. 1919. 29 p.

Tex. Agr. Expt. Sta. Bul. 245.

Hydrocyanic acid in Sudan grass. C. O. Swanson. 1921. U. S. Dept. Agr.

Jour. Agr. Research, 22: 125-133. (Kans.-27)

An Investigation of the feeding value of flax material as determined by chemical analysis. A further study of the distribution of prussic acid in the flax plant. J. W. Ince. 1913. N. D. Agr. Expt. Sta. Bul. 106, p. 10-46.

A Laboratory study to determine the best time to ensile corn, sunflowers, and Sudan grass. P. A. Wright and R. H. Shaw. 1926. U. S. Dept. Agr. Jour. Agr. Research, 32: 321-333. (I-3)

Mineral composition of sunflowers grown for silage. R. E. Neidig and R. S. Snyder. 1926. U. S. Dept. Agr. Jour. Agr. Research, 31: 1165-1171. (Idaho-8)

The Mutual influence of the proportion of the several nutrients, in feeds, on their digestibility. I. Crude fiber- the digestibility of rations containing varying amounts of alfalfa and paper pulp. H. W. Titus. 1926. 52 p. N. M. Agr. Expt. Sta. Bul. 153.

Native forage plants and their composition. 1906. 41 p. Nev. Agr. Expt. Sta. Bul. 62.

Net-energy values of alfalfa hay and alfalfa meal. E. B. Forbes, J. A. Fries, and W. W. Braman. 1926. U. S. Dept. Agr. Jour. Agr. Research, 31: 987-995. (Penn.-15)

Net energy values of alfalfa hay and of starch. H. P. Armsby and J. A. Fries. 1918. U. S. Dept. Agr. Jour. Agr. Research, 15: 269-286. (Pa.-9)

Net-energy values of corn silage, soy-bean hay, alfalfa hay, and oats. E. B. Forbes, W. W. Braman, and Max Kriss. 1927. U. S. Dept. Agr. Jour. Agr. Research, 34: 785-795. (Pa.-23)

Net energy values of feeding stuffs for cattle. H. P. Armsby and J. A. Fries. 1915. U. S. Dept. Agr. Jour. Agr. Research, 3: 435-491. (A-13)

Nutritive properties of pinto beans and pinto bean straw and their use as feed for cattle. H. W. Titus. 1924. 73 p. N. M. Agr. Expt. Sta. Bul. 143.

Preliminary report on steamed silage. James Withycombe and C. L. Knisely. 1902. p. 185-201. Oreg. Agr. Expt. Sta. Bul. 72.



VII. FEEDING STUFFS: COMPOSITION AND DIGESTIBILITY (Cont'd)

- The Price of feed utilities. G. S. Fraps. 1924. 24 p. Tex. Agr. Expt. Sta. Bul. 323.
- The Production coefficients of feeds. G. S. Fraps. 1916. 16 p. Tex. Agr. Exp. Sta. Bul. 185.
- The Productive values of some Texas feeding stuffs. G. S. Fraps. 1916. 42 p. Tex. Agr. Expt. Sta. Bul. 203.
- Revised net-energy values of feeding stuffs for cattle. E. B. Forbes and Max Kriss. 1926. U. S. Dept. Agr. Jour. Agr. Research, 31: 1083-1099. (Pa.-16)
- Stacked green corn for cattle. James W. Wilson. 1928. 8 p. S. D. Agr. Expt. Sta. Bul. 229.
- Studies on digestibility of sunflower silage fed to sheep. J. Sotola. 1921. 11 p. Wash. Agr. Expt. Sta. Bul. 161.
- Studies on the composition and nutritive value of clover hay and clover silage in Montana. Edmund Burke. 1917. p. 56-72. Mont. Agr. Expt. Sta. Bul. 117.
- Studies on the digestibility of sunflower silage. W. E. Joseph and M. J. Blish. 1920. 8 p. Mont. Agr. Expt. Sta. Bul. 134.
- A study of Bermuda grass. Pt. I. Cultivation and value. Pt. II. Chemical composition. Pt. III. Digestion experiments. C. K. Francis and R. O. Baird. 1910. 19 p. Okla. Agr. Expt. Sta. Bul. 90.
- A Study of ensiling a mixture of Sudan grass with a legume. P. A. Wright and R. H. Shaw. 1924. U. S. Dept. of Agr. Jour. Agr. Research, 28: 255-259. (A-73)
- Sudan grass silage. C. K. Francis and W. G. Friedemann. 1917. 8 p. Okla. Agr. Expt. Sta. Bul. 115.
- Sugar-beet by-products for fattening livestock. E. J. Maynard and B. W. Fairbanks. 1928. 19 p. Colo. Agr. Coll. Ext. Bul. 269-1.
- Sugar beet top silage. R. E. Neidig. 1921. U. S. Dept. Agr. Jour. Agr. Research, 20: 537-542. (Idaho - 4)
- Sunflower investigations. R. E. Neidig and R. S. Snyder. 1923. U. S. Dept. Agr. Jour. Agr. Research, 24: 769-780. (Idaho-6)
- Sunflower silage. R. E. Neidig and L. E. Vance. 1919. U. S. Dept. Agr. Jour. Agr. Research, 18: 325-327. (Idaho-3)

VII. FEEDING STUFFS: COMPOSITION AND DIGESTIBILITY (Cont'd)

Sunflower silage digestion experiment with cattle and sheep. R. A. Neidig, R. S. Snyder and C. W. Hickman. 1921. U. S. Dept. Agr. Jour. Agr. Research, 20: 881-888. (Idaho-5)

Sunflower silage for steers. Smutted corn silage for cows. J. W. Wilson and A. H. Kuhlman. 1922. p. 469-482. S. D. Agr. Expt. Sta. Bul. 199.

Sweet clover investigations. R. E. Neidig and R. S. Snyder. 1923. U. S. Dept. Agr. Jour. Agr. Research, 24: 795-799. (Idaho - 7)

Texas feeding stuffs; their composition and utilization. G. S. Fraps. 1914. 34 p. Tex. Agr. Expt. Sta. Bul. 170.

Wheat as a food for growing and fattening animals. D. F. Salmon. [1894] 4 p. U. S. Dept. Agr. Bur. Anim. Indus. Circ. 2.

Wyoming forage plants and their chemical composition. Studies no. 1-4. H. G. Knight, F. E. Hepner, Aven Nelson. 1905-11. Wyo. Agr. Expt. Sta. Bul. 65, 70, 76, 87.

Wyoming forage plants and their chemical composition. Studies no. 6. A. T. Cundy. 1924. 16 p. Wyo. Agr. Expt. Sta. Bul. 137.

Wyoming forage plants and their chemical composition. Studies no. 7. Effect of altitude, seasonal variation and shading experiments. E.N. Roberts. 1926, p. 33-89. Wyo. Agr. Expt. Sta. Bul. 146.

Wyoming forage plants and their chemical composition. Studies no. 8. Otto McCreary. 1927. p. 89-106. Wyo. Agr. Expt. Sta. Bul. 157.

# VIII. FORAGE

## 1. Browse.

The Value of oak leaves for forage. W. W. Mackie. 1903. 21 p. Calif. Agr. Expt. Sta. Bul. 150.

## 2. Cultivated Crops

Annual forage crops. T. A. Kiesselbach and Arthur Anderson. 1925. 45 p. Nebr. Agr. Expt. Sta. Bul. 206.

Annual forage crops on dry land at the Judith Basin substation. N. F. Woodward. 1923. 15 p. Mont. Agr. Expt. Sta. Bul. 153.

Annual hay and forage crops. L. R. Waldron and F. W. Christensen. 1920. 8 p. N. D. Agr. Coll. Ext. Circ. 37.

Breeding drought-resistant forage plants for the Great Plains area. A. C. Dillman. 1910. 40 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 196.

Cooperative range grass and forage plant experiments at Highmore, S. Dak. F. L. Scribner. 1900. 10 p. U. S. Dept. Agr. Div. Agrostology Circ. 21.

Cultivated forage crops of the northwestern states. A. S. Hitchcock. 1902. 28 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 31.

Farm practice with forage crops in western Oregon and western Washington. Byron Hunter. 1906. 39 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 94.

Forage and root crops. C. S. Knight. 1917. 20 p. Nev. Agr. Expt. Sta. Bul. 86.

Forage and silage crops for Oklahoma. O. O. Churchill. 1914. 15 p. Okla. Agr. Expt. Sta. Circ. 34.

Forage-crop practices in western Oregon and western Washington. Byron Hunter. 1906. 39 p. U. S. Dept. Agr. Farmers' Bul. 271.

Forage crops. T. A. Kiesselbach. 1918. 36 p. Nebr. Agr. Expt. Sta. Bul. 169.

Forage crops. T. S. Parsons. 1914. p. 11-22 Wyo. Agr. Expt. Sta. Bul. 104.

Forage crops and their culture in northern Nebraska and the Dakotas. Samuel Garver. 1927. 46 p. U. S. Dept. Agr. Farmers' Bul. 1511.

Forage crops for lambs. J. W. Wilson, and A. H. Kuhlman. 1924. p. 659-674. S. D. Agr. Expt. Sta. Bul. 207.



VIII. FORAGE (Cont'd)

2. Cultivated Crops (Cont'd)

- Forage crops for Oregon coast counties. A. E. Engbrétson and G. R. Hyslop. 1924. 32 p. Oreg. Agr. Expt. Sta. Bul. 203.
- Forage crops for the Colorado plains. Alvin Kezer. 1915. 7 p. Colo. Agr. Expt. Sta. Bul. 214.
- Forage crops for the non-irrigated lands of Idaho. R. K. Bonnett. 1920. 23 p. Idaho Agr. Expt. Sta. Bul. 120.
- Forage crops for the sand-hill section of Nebraska. H. N. Vinall. 1911. 23 p. U. S. Dept. Agr. Bur. Plant Indus. Circ. 80.
- Forage crops in central Washington. M. A. McCall. 1916. 11 p. Wash. Agr. Expt. Sta. Bul. 128.
- Forage crops in relation to the agriculture of the semi-arid portion of the northern Great Plains. R. A. Oakley and H. L. Westover. 1924. 53 p. U. S. Dept. Agr. Dept. Bul. 1244.
- Forage crops in western Kansas. R. E. Getty. 1921. 54 p. Kans. Agr. Expt. Sta. Bul. 225.
- Forage plants for Kansas. A. S. Hitchcock and J. M. Westgate. 1901. p. 179-220. Kans. Agr. Expt. Sta. Bul. 102.
- Forage plants for western Washington. W. H. Lawrence, and H. L. Blanchard. 1910. 45 p. Wash. Agr. Expt. Sta. Bul. 2, spec. ser.
- Grasses and forage plants in Idaho. L. F. Henderson. 1903. p. 191-256. Idaho Agr. Expt. Sta. Bul. 38.
- Leguminous forage crops. J. G. Smith. 1898. U. S. Dept. Agr. Yearbook, 1897, p. 487-508. (Y.B. Sep.: 92)
- Pasture, meadow and forage crops in Nebraska. T. L. Lyon and A. S. Hitchcock. 1904. 64 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 59. Practically the same material is published as Neb. Agr. Expt. Sta. Bul. 84.

a. Alfalfa.

- Alfalfa. 1908. p. 181-345. Kans. Agr. Expt. Sta. Bul. 155.
- Alfalfa. G. R. Quesenberry. 1923. 19 p. N. M. Agr. Expt. Sta. Bul. 139.

VIII. FORAGE (Cont'd)

2. Cultivated Crops (Cont'd)

a. Alfalfa (Cont'd)

- Alfalfa. Pt. 1. Practical information for alfalfa growers. Pt. II. Studies in drouth resistance and seed production. L. R. Waldron. 1911. p. 354-424. N. D. Agr. Expt. Sta. Bul. 95.
- Alfalfa for livestock; growing and feeding the crop in South Dakota. 1927. 8 p. S. D. Coll. Agr. Ext. Circ. 259.
- Alfalfa for North Dakota; its value as a crop, cultivation and use. L. R. Waldron. 1919. 8 p. N. D. Agr. Coll. Ext. Circ. 19.
- Alfalfa in Kansas, 1916. Kansas State Bd. Agric. Report quarter ending June 1916. v. 35, no. 138. 484 p.
- Alfalfa in Nebraska. T. A. Kiesselbach and Arthur Anderson. 1927. 27 p. Nebr. Agr. Expt. Sta. Bul. 222.
- Alfalfa in the Southwest. G. F. Freeman. 1914. p. 225-320. Ariz. Agr. Expt. Sta. Bul. 73.
- Alfalfa in western Washington. Leonard Hegnauer. 1924. 7 p. Wash. State Coll. Ext. [Bul.] 123.
- Alfalfa in Wyoming. T. S. Parsons. 1916. p. 17-55. Wyo. Agr. Expt. Sta. Bul. 111.
- Alfalfa investigations. T. A. Kiesselbach and Arthur Anderson. 1926. 125 p. Nebr. Agr. Expt. Sta. Research Bul. 36.
- Alfalfa production in Kansas. R. I. Throckmorton and S. C. Salmon. 1927. 42 p. Kans. Agr. Expt. Sta. Bul. 242.
- Comparative shrinkage in weight of alfalfa cured with leaves attached and removed. H. L. Westover. 1926. 10 p. U. S. Dept. Agr. Dept. Bul. 1424.
- The Development of the Peruvian alfalfa industry in the United States. H. L. Westover. 1920. 8 p. U. S. Dept. Agr. Dept. Circ. 93.
- Dry-land alfalfa. 1920. 4 p. U. S. Dept. Agr. Dept. Circ. 122.
- Effect of frequent cutting on the water requirement of alfalfa and its bearings on pasturage. L. J. Briggs and H. L. Shantz. 1915. 6 p. U. S. Dept. Agr. Bul. 228.

VIII. FORAGE (Cont'd)

2. Cultivated Crops (Cont'd)

a. Alfalfa (Cont'd)

- Grimm alfalfa. 1920. 4p. U. S. Dept. Agr. Dept. Circ. 123.
- Growing alfalfa without irrigation. George Severance. 1919. [15] p.  
Wash. State Coll. Ext. [Bul.] ser. 1, no. 52.
- Hardy alfalfa for Nebraska. T. A. Kiesselbach and Arthur Anderson. 1926.  
8 p. Nebr. Agr. Coll. Ext. Circ. 130.
- Losses of organic matter in making brown and black alfalfa. C. O.  
Swanson, L. E. Call, and S. C. Salmon. 1919. U. S. Dept. Agr. Jour.  
Agr. Research, 18: 299-304. (Kans.-21)
- Peruvian alfalfa. 1920. 6 p. U. S. Dept. Agr. Dept. Circ. 117.
- Peruvian alfalfa: a new long-season variety for the Southwest. C. J.  
Brand. 1907. 35 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 118.
- Relation of maturity to the nutritive value of first, second, and third  
cuttings of irrigated alfalfa. Jerry Sotola. 1927. U. S. Dept. Agr.  
Jour. Agr. Research, 25: 361-383. (Wash.-9)

b. Alfilaria

- Alfilaria, Erodium cicutarium, as a forage plant in Arizona. J. J. Thornber.  
1906. p. 27-53. Ariz. Agr. Expt. Sta. Bul. 52.

c. Barley

- Barley: culture, uses and varieties. H. V. Harlan. 1925. 33 p. U. S.  
Dept. Agr. Farmers' Bul. 1464.

d. Beans

- The Jack bean. C. V. Piper. 1920. 12 p. U. S. Dept. Agr. Dept.  
Circ. 92.
- Jack bean (Canavalia ensiformis). N. O. Booth. 1914. [4] p. Okla. Agr.  
Expt. Sta. Circ. 29.
- The Small-seeded horse bean, Vicia faba var minor. P. B. Kennedy. 1923.  
23 p. Calif. Agr. Expt. Sta. Circ. 257.



VIII. FORAGE (Cont'd)

2. Cultivated Crops (Cont'd)

e. Clover

- Alfalfa and sweet clover, our two great forage legumes. C. A. Norcross. 1916. 28 p. Nev. Coll. Agr. Ext. [Bul.] 5.
- Bur clover. C. V. Piper and Roland McKee. 1923. 16 p. U. S. Dept. Agr. Farmers' Bul. 693, rev.
- Sweet clover. R. K. Bonnett and H. W. Hulbert. 1922. 14 p. Idaho Agr. Expt. Sta. Circ. 22.
- Sweet clover. 1915. Kans. State Bd. Agric. Report, quarter ending Mar. 1915, v. 34, no. 133, p. 91-128.
- Sweet clover. M. A. Beeson and J. M. Daily. 1915. [4] p. Okla. Agr. Coll. Ext. Circ. 11.
- Sweet clover. T. S. Parsons. 1916. 15 p. Wyo. Agr. Expt. Sta. Bul. 110.
- Sweet clover; experiments in pasturing. J. H. Shopperd. 1927. [57] p. N. D. Agr. Expt. Sta. Bul. 211.
- Sweet clover for North Dakota, cultivation, value and use. L. R. Waldron 1919. 8 p. N. D. Agr. Coll. Ext. Circ. 20.
- Sweet clover for profit, growing and using the crop in South Dakota. 1927. 8 p. S. D. Coll. Agr. Ext. Circ. 258.
- Sweet clover; growing and handling the crop in Idaho. H. W. Hulbert. 1927. 20 p. Idaho Agr. Expt. Sta. Bul. 147.
- Sweet clover in Kansas. L. E. Willoughby and E. B. Wells. 1924. [16] p. Kans. Agr. Coll. Ext. Bul. 45.
- Sweet clover in Nebraska. P. H. Stewart and D. L. Gross. 1923. 16 p. Nebr. Agr. Coll. Ext. Circ. 122.
- Sweet clover, its use and management. R. O. Westley. 1923. 11 p. Wash. State Coll. Ext. [Bul.] 109.
- Winter bur clover. W. C. Welborn. 1908. 6 p. Tex. Agr. Expt. Sta. Bul. 108.

VIII. FORAGE (Cont'd)

2. Cultivated Crops (Cont'd)

f. Cowpeas

Cowpea culture. O. O. Churchill. 1914. 22 p. Okla. Agr. Expt. Sta. Bul. 105.

Cow-peas. A. M. Ten Eyck and L. E. Call. 1909. p. 179-209. Kans. Agr. Expt. Sta. Bul. 160.

g. Emmer and Spelt

Emmer: a grain for the semiarid regions. M. A. Carleton. 1901. 16 p. U. S. Dept. Agr. Farmers' Bul. 139.

Emmer and Spelt. J. H. Martin and C. E. Leighty. 1924. 13 p. U. S. Dept. Agr. Farmers' Bul. 1429.

h. Japanese sugar cane

Japanese sugar cane as a forage crop. A. H. Leidigh, G. T. McNess, and H. H. Laude. 1916. 28 p. Tex. Agr. Expt. Sta. Bul. 195.

i. Millet

Proso or hog millet. J. H. Martin, 1920. 15 p. U. S. Dept. Agr. Farmers' Bul. 1162.

j. Peas

Field pea. 1920. 4 p. U. S. Dept. Agr. Dept. Circ. 118.

The Field pea as a forage crop. H. N. Vinall. 1924. 24 p. U. S. Dept. Agr. Farmers' Bul. 690, rev.

Gram, chick-pea, or Idaho pea. J. G. Smith. 1898. 4 p. U. S. Dept. Agr. Div. Agrostology Circ. 7.

The Tangier pea, Lathyrus tingitanus. P. B. Kennedy. 1925. 15 p. Calif. Agr. Expt. Sta. Circ. 290.

k. Rape

Rape as a forage plant. T. A. Williams. 1899. 6 p. U. S. Dept. Agr. Div. Agrostology Circ. 12.

VIII. FORAGE (Cont'd)

2. Cultivated Crops (Cont'd)

1. Sorghum

The Best two sweet sorghums for forage. A. B. Conner. 1911. 23 p.  
U. S. Dept. Agr. Farmers' Bul. 458.

Corn, milo, and kafir in the southern Great Plains area: relation of  
cultural methods to production. E. F. Chilcott, W. D. Griggs, and  
C. A. Burmeister. 1915. 20 p. U. S. Dept. Agr. Bul. 242.

Darso. M. A. Beeson and Adrian Daane. 1919. 19 p. Okla. Agr. Expt. Sta.  
Bul. 127.

Feterita, a new variety of sorghum. 1915. Kans. State Bd. Agric. Rept.  
quarter ending Mar. 1915, v. 34, no. 133, p. 129-155.

The Grain sorghums. O. O. Churchill and A. H. Wright. 1914. 70 p. Okla.  
Agr. Expt. Sta. Bul. 102.

Grain sorghums for Oklahoma. M. A. Beeson. 1918. 13 p. Okla. Agr. Coll.  
Ext. Circ. 73.

Growing and utilizing sorghums for forage. H. N. Vinall and R. E. Getty.  
1920. 32 p. U. S. Dept. Agr. Farmers' Bul. 1158.

Kafir as a grain crop. C. R. Ball and B. E. Rothgeb. 1913. 19 p.  
U. S. Dept. Agr. Farmers' Bul. 552.

Kafir-corn. H. M. Cottrell, D. H. Otis, and J. G. Haney. 1900. p. 29-48.  
Kans. Agr. Expt. Sta. Bul. 93.

Kafir, feterita, milo. 1915. 18 p. Tex. Dept. Agr. Bul. 42.

Kafir in field and feed lot. G. K. Holder. 1914. p. 611-632. Kans. Agr.  
Expt. Sta. Bul. 198.

Milo as a dry-land grain crop. C. R. Ball and A. H. Leidigh. 1908. 23 p.  
U. S. Dept. Agr. Farmers' Bul. 322.

New sorghum varieties for the central and southern Great Plains. H. N.  
Vinall and R. W. Edwards. 1916. 15 p. U. S. Dept. Agr. Bul. 383.

The Nonsaccharine sorghums. C. W. Warburton. 1907. 28 p. U. S. Dept.  
Agr. Farmers' Bul. 288.

Saccharine sorghums for forage. C. R. Ball. 1906. 37 p. U. S. Dept.  
Agr. Farmers' Bul. 246.

Sorghum as a forage crop. T. A. Williams. 1899. 20 p. U. S. Dept. Agr.  
Farmers' Bul. 50, rev.



VIII. FORAGE (Cont'd)

2. Cultivated Crops (Cont'd)

1. Sorghum (Cont'd)

Sorghums for forage in South Dakota. Manley Champlin and George Winright. 1917. p. 622-645. S. D. Agr. Expt. Sta. Bul. 174.

Sorghums for silage and hay. R. L. Stewart. 1919. 20 p. N. M. Agr. Expt. Sta. Bul. 119.

Spur feterita. 1920. 4 p. U. S. Dept. Agr. Dept. Circ. 124.

Spur feterita. A. B. Conner and R. E. Dickson. 1921. 28 p. Tex. Agr. Expt. Sta. Bul. 275.

m. Soybeans

Soybeans and cowpeas. T. A. Kiesselbach. 1915. 31 p. Nebr. Agr. Expt. Sta. Bul. 150.

Soybeans in Kansas. H. H. Laude and J. W. Zahnley. 1924. 11 p. Kans. Agr. Coll. Ext. Circ. 48.

n. Sunflowers

The Culture and feeding of Russian sunflowers. G. R. Quesenberry, C. C. Cunningham, and Luther Foster. 1921. 20 p. N. M. Agr. Expt. Sta. Bul.

Growing and feeding sunflowers in Montana. Alfred Atkinson, J. B. Nelson, C. N. Arnett, W. E. Joseph, and Oscar Tretsven. 1919. 27 p. Mont. Agr. Expt. Sta. Bul. 131.

Growing sunflowers for silage in Idaho. H. W. Hulbert and J. H. Christ. 1926. 12 p. Idaho Agr. Expt. Sta. Bul. 141.

The Sunflower as a silage crop. H. N. Vinall. 1922. 32 p. U. S. Dept. Agr. Bul. 1045.

The Sunflower plant: its cultivation, composition, and uses. H. W. Wiley. 1901. 31 p. U. S. Dept. Agr. Div. Chem. Bul. 60.

Sunflower production for silage. E. G. Schafer and R. O. Westley. 1921. 20 p. Wash. Agr. Expt. Sta. Bul. 162.

Sunflowers for silage. G. S. Ray. 1919. 8 p. Colo. Agr. Coll. Ext. Bul. 158-A.

Sunflowers for silage. E. D. Holden and E. J. Delwiche. 1928. 16 p. Wis. Coll. Agr. Ext. Serv. Circ. 220.

Sunflowers; their culture and use. A. F. Vass. 1921. p. 77-107. Wyo. Agr. Expt. Sta. Bul. 129.

VIII. FORAGE (Cont'd)

2. Cultivated Crops (Cont'd)

o. Vetch.

Common vetch. H. A. Schoth and G. R. Hyslop. 1925. 29 p. Oreg. Agr. Expt. Sta. Bul. 213.

Purple vetch. Roland McKee. 1925. 12 p. U. S. Dept. Agr. Farmers' Bul. 967, rev.

3. Hay

Baling hay. H. B. McClure. 1919. 35 p. U. S. Dept. Agr. Farmers' Bul. 1049.

Effective haying equipment and practices for northern Great Plains and inter-mountain regions. L. A. Reynoldson and C. D. Kinsman. 1927. 28 p. U. S. Dept. Agr. Farmers' Bul. 1525.

Measuring hay in ricks or stocks. H. B. McClure and W. J. Spillman. 1916. 10 p. U. S. Dept. Agr. Office Sec. Circ. 67.  
Reprinted as Idaho University extension bulletin 23.

Methods of handling hay in Colorado. G. A. Cumings. 1923. 39 p. Colo. Agr. Expt. Sta. Bul 281.

4. Range and Pasture Grasses and Plants.

(See also XIV. Range and pasture management, p. 73)

Angleton grass. V. E. Hafner. 1926. 11 p. Tex. Agr. Expt. Sta. Bul. 342.

Australian saltbush. Roland McKee. 1919. 12 p. U. S. Dept. Agr. Bul. 617.

Australian salt-bushes; results of 18 years' tests; characteristics; propagation, and field experiments. C. H. Shinn. Composition and food value. M. E. Jaffa. 1899. 30 p. Calif. Agr. Expt. Sta. Bul. 125.

Bermuda. O. O. Churchill. 1912. [3] p. Okla. Agr. Expt. Sta. Circ. 16.

Bermuda grass. W. D. Bentley. 1925. [4] p. Okla. Agr. Coll. Ext. Circ. 9, re

Brome-grass, slender wheat-grass and timothy. L. R. Waldron. 1919. 8 p. N. D. Agr. Coll. Ext. Circ. 24.

The Brome-grasses of Wyoming. Aven Nelson. 1901. 21 p. Wyo. Agr. Expt. Sta. Bul. 46.

VIII FORAGE (Cont'd.)

4. Range and Pasture Grasses and Plants. (Cont'd)

- Cacti in New Mexico. E. O. Wooton. 1911. 70 p. N. M. Agr. Expt. Sta. Bul. 78.
- Cultivated grasses of secondary importance. C. V. Piper. 1925. 43 p. U. S. Dept. Agr. Farmers' Bul. 1433.
- Effects of different systems and intensities of grazing upon the native vegetation at the northern Great Plains field station. J. T. Sarvis. 1923. 45 p. U. S. Dept. Agr. Dept. Bul. 1170.
- Forage conditions of central Montana. F. A. Spragg. 1902. 40 p. Mont. Agr. Expt. Sta. Bul. 36.
- Forage conditions of the prairie region. J. G. Smith. 1896. U. S. Dept. Agr. Yearbook, 1895, p. 309-324. (Y.B. Sep. 59, pt. 3)
- Forage conditions on the northern border of the Great Basin, being a report upon investigations made during July and August, 1901, in the region between Winnemucca, Nevada, and Ontario, Oregon. David Griffiths. 1902. 60 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 15.
- Grasses. A. M. Ten Eyck. 1911. p. 293-394. Kans. Agr. Expt. Sta. Bul. 175.
- Grasses and forage plants of the Dakotas. T. A. Williams. 1897. 47 p. U. S. Dept. Agr. Div. Agrostology Bul. 6.
- The Grasses and grass-like plants of New Mexico. E. O. Wooton and P. C. Standley. 1911. 175 p. N. M. Agr. Expt. Sta. Bul. 81.
- Grasses for pasture and hay in Texas. G. M. Garren. 1916. 16 p. Tex. Agr. Coll. Ext. Bul. B-32.
- Grasses of the Pacific slope including Alaska and the adjacent islands. Plates and descriptions of the grasses of California, Oregon, Washington, and the northwestern coast, including Alaska. George Vasey. 1893. 2 pts. U. S. Dept. Agr. Div. Bot. Bul. 13.
- Grasses of the Southwest. Plates and descriptions of the grasses of the desert region of western Texas, New Mexico, Arizona, and southern California. George Vasey. 1890. 2 pts. U. S. Dept. Agr. Div. Bot. Bul. 12.
- Grazing on the public lands. Extracts from the Report of the Public lands commission. (Sen. Doc. 189. 58th Cong. 3d sess.) 1905. 67 p. U.S. Dept. Agr. Forest Serv. Bul. 62.



VIII. FORAGE (Cont'd)

4. Range and Pasture Grasses and Plants (Cont'd)

- The Grazing ranges of Arizona. J. J. Thornber. 1910. p. 245-360. Ariz. Agr. Expt. Sta. Bul. 65.
- Contents. - Chap. 1. Climatic conditions. Chap. 2. Forage plants of Arizona and their relation to rainfall. Chap. 3. Protected enclosures versus open range. Chap. 4. Storm water embankments or dams. Chap. 5. Cultural operations on the small range reserve. Chap. 6. The past, present and future of our grazing range.
- A Handbook of Nebraska grasses, with illustrated keys for their identification together with a general account of their structure and economic importance. E. M. Wilcox, G. K. Link, and V. W. Pool. 1915. 120 p. Nebr. Agr. Expt. Sta. Bul. 148.
- Important cultivated grasses. C. V. Piper. 1922. 38 p. U. S. Dept. Agr. Farmers' Bul. 1254.
- Important range plants: their life history and forage value. A. W. Sampson. 1917. 63 p. U. S. Dept. Agr. Bul. 545.
- Irrigated pastures. Dan Hansen. 1924. 26 p. Mont. Agr. Expt. Sta. Bul. 166.
- Native and introduced forage plants. J. H. Shepperd, D. A. Saunders, W. H. Knox. 1901. 54 p. S. D. Agr. Expt. Sta. Bul. 69.
- Native pasture plants of the United States. David Griffiths, G. L. Bidwell, and C. E. Goodrich. 1915. 52 p. U. S. Dept. Agr. Bul. 201.
- Notes on national forest range plants. Part 1, Grasses. By the Office of grazing studies, Forest service. 1914. 224 p.
- Notes of the grasses and forage plants of Iowa, Nebraska, and Colorado. L. H. Pammel. 1897. 47 p. U. S. Dept. Agr. Div. Agrostology Bul. 9.
- Our forage resources. C. V. Piper, H. N. Vinall, R. A. Oakley, Lyman Carrier, O. E. Baker, J. S. Cotton, O. A. Juve, N. P. Bradshaw, E. W. Sheets, C. W. Marsh, W. C. Barnes, and W. B. Bell. 1924. U. S. Dept. Agr. Yearbook, 1923, p. 311-413. (Y. B. Sep. 895)
- Our native pasture plants. F. L. Scribner. 1901. U. S. Dept. Agr. Yearbook, 1900, p. 581-598. (Y. B. Sep. 223)
- Pasture crops for Colorado. Waldo Kidder. 1923. 16 p. Colo. Agr. Coll. [Ext. Bul.] 244-A.
- Pastures and pasture grasses for Utah. F. S. Harris. 1913. 41 p. Utah Agr. Expt. Sta. Circ. 15.

VIII. FORAGE (Cont'd)

4. Range and Pasture Grasses and Plants (Cont'd)

Permanent pastures. M. E. McCollam. 1927. 56 p. Wash. Agr. Expt. Sta. Bull. 211.

Plants used for food by sheep on the Mica Mountain summer range. R. K. Beattie. 1913. 21p. Wash. Agr. Expt. Sta. Bul. 113.

A Preliminary report on the summer ranges of western Nevada sheep. P. B. Kennedy and S. B. Doten. 1901. 57 p. Nev. Agr. Expt. Sta. Bul. 51.

The Prickly pear as a farm crop. David Griffiths. 1908. 37 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 124.

Progress of experiments in forage crops and range improvement at Abilene, Tex. H. L. Bentley. 1900. 20 p. U. S. Dept. Agr. Div. Agrostology. Circ. 23.

Raising sheep on temporary pastures. F. R. Marshall and C. G. Potts. 1921. 18 p. U. S. Dept. Agr. Farmers' Bul. 1181.

Range grassland and forage plant experiments at Highmore, S. Dak. Report of progress. F. L. Scribner. 1901. 5 p. U. S. Dept. Agr. Div. Agrostology Circ. 33.

Range grasses of California. A. W. Sampson and Agnes Chase. 1927. 94 p. Calif. Agr. Expt. Sta. Bul. 430.

The Red Desert of Wyoming and its forage resources. Aven Nelson. 1898. 72 p. U. S. Dept. Agr. Div. Agrostology Bul. 13.

A Report on the range conditions of central Washington. J. S. Cotton. 1904. 45 p. Wash. Agr. Expt. Sta. Bul. 60.

A Report upon the grasses and forage plants and forage conditions of the eastern Rocky Mountain region. T. A. Williams. 1898. 78 p. U. S. Dept. Agr. Div. Agrostology Bul. 12.

A Report upon the grasses and forage plants of central Texas. H. L. Bentley. 1898. 38 p. U. S. Dept. Agr. Div. Agrostology Bul. 10.

A Report upon the grasses and forage plants of the Rocky Mountain region. P. Rydberg and C. L. Shear. 1897. 48 p. U. S. Dept. Agr. Div. Agrostology Bul. 5.

Revegetation of waste range land. H. C. Hanson. 1908. 9 p. Colo. Agr. Expt. Sta. Bul. 332.

Saltbushes. P. B. Kennedy. 1900. 20 p. U. S. Dept. Agr. Farmers' Bul. 108.

VIII. FORAGE (Cont'd)

4. Range and Pasture Grasses and Plants (Cont'd)

- Saltbushes and their allies in the United States. G. L. Bidwell and E. O. Wooton. 1925. 39 p. U. S. Dept. Agr. Dept. Bul. 1345.
- Smooth brome-grass (Bromus inermis) P. B. Kennedy. 1899. 9 p. U. S. Dept. Agr. Div. Agrostology Circ. 18.
- Some especially valuable grasses in Texas. G. H. Hogan. 1911. 41 p. Tex. Dept. Agr. Bul. 20.
- The "Spineless" prickly pears. David Griffiths. 1909. 24 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 140.
- Stock ranges of northwestern California: notes on grasses and forage plants and range conditions. J. B. Davy. 1902. 81 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 12.
- A Study of grazing conditions in the Wenaha national forest. H. T. Darlington. 1915. 18 p. Wash. Agr. Expt. Sta. Bul. 122.
- Sudan grass. 1915. Kans. State Bd. Agric. Rept. quarter ending June 1915. v. 34, no. 133, p.156-188.
- Sudan grass. R. L. Stewart and Luther Foster. 1918. 13 p. N. M. Agr. Expt. Sta. Bul. 111.
- Sudan grass. R. E. Kerper. 1915. 14 p. Okla. Agr. Expt. Sta. Bul. 103.
- Sudan grass. B. Youngblood and A. B. Conner. 1915. 28 p. Tex. Agr. Expt. Sta. Bul. 172.
- Sudan grass and related plants. H. N. Vinall and R. E. Getty. 1921. 68 p. U. S. Dept. Agr. Bul. 981.
- Sudan grass (Andropogon sorghum var.) 1919. 4 p. U. S. Dept. Agr. Dept. Circ. 212.
- Summer ranges of eastern Nevada sheep. P. B. Kennedy. 1903. 53 p. Nev. Agr. Expt. Sta. Bul. 55.
- The Thornless prickly pears. David Griffiths. 1912. 20 p. U. S. Dept. Agr. Farmers' Bul. 483.
- Yields of native prickly pear in southern Texas. David Griffiths. 1915. 11 p. U. S. Dept. Agr. Bul. 208.



VIII. FORAGE (Cont'd.)

5. Silage.

(See also V. 5 Silos, p. 26; VI. Feeding, p. 28; VII. Feeding stuffs, p. 40)

Filling silos. J. B. Fitch. 1928. 8 p. Kans. Agr. Expt. Sta. Circ. 139.

Filling the silo. J. H. Frandsen. 1913. 4 p. Nebr. Coll. Agr. Ext. Bul. 21.

The Making and feeding of silage. T. E. Woodward, J. B. McNulty, G. M. Rommel, E. W. Sheets, and F. R. Marshall. 1925. 22 p. U. S. Dept. Agr. Farmers' Bul. 578.

Making silage. E. L. Westover. [1920] 12 p. Oreg. Agr. Coll. Ext. Bul. 321.

Oats and vetch versus corn or sunflowers for silage. R. C. Jones. 1922. 20 p. Oreg. Agr. Expt. Sta. Bul. 194.

Silage crops for Nevada. C. S. Knight. 1918. 16 p. Nev. Agr. Expt. Sta. Bul. 91.

The Weight and lateral pressure of sunflower silage. H. E. Murdock. 1926. 19 p. Mont. Agr. Expt. Sta. Bul. 191.

Wheat silage. J. R. Shinn. 1915. [4] p. Wash. Agr. Expt. Sta. Bul. 88.

## IX. HERD MANAGEMENT

### 1. General

- Activities of livestock on the range. V. L. Cory. 1927. 47 p. Tex. Agr. Expt. Sta. Bul. 367.
- The Burning of dead animals. R. H. McDowell. 1902. 12 p. Nev. Agr. Expt. Sta. Bul. 53.
- Fitting live stock for show. C. I. Bray. 1921. 36 p. Colo. Agr. Coll. Ext. Bul. 171-A.
- Range sanitation. G. W. Barnes. 1916. 11 p. Ariz. Coll. Agr. Ext. Serv. Circ. 6.

### 2. Beef Cattle

- Beef cattle in Montana. Louis Vinke and C. N. Arnett. 1927. 67 p. Mont. Agr. Expt. Sta. Circ. 133.
- Beef-cattle production in the range area. V. V. Parr. 1925. 44 p. U. S. Dept. Agr. Farmers' Bul. 1395.
- Beef production in Colorado. C. I. Bray. 1922. 40 p. Colo. Agr. Coll. Ext. Bul. 190-A.
- Dehorning, castrating, branding, and marking beef cattle. W. H. Black and V. V. Parr. U. S. Dept. Agr. Farmers' Bul. 949, rev. (In press)
- Determining the age of cattle by the teeth. G. W. Pope. 1919. 4 p. U. S. Dept. Agr. Farmers' Bul. 1066.
- Economical beef production. H. R. Smith. 1910. 51 p. Nebr. Agr. Expt. Sta. Bul. 116.
- Factors affecting range management; a report from cattlemen on the factors which affect the percentage and uniformity of the calf crop and the development of the calves to maturity on the range. J. L. Lantow. 14 p. N. M. Coll. Agr. Ext. Circ. 74.
- Growing beef on the farm. F. W. Farley. 1925. 18 p. U. S. Dept. Agr. Farmers Bul. 1073, rev.
- Growing feeder steers in western Nebraska. W. P. Snyder. 1911. 54 p. Nebr. Agr. Expt. Sta. Bul. 117.
- Growing steers. E. L. Potter and Robert Withycombe. 1921. 15 p. Oreg. Agr. Expt. Sta. Bul. 132.
- Live stock management; beef cattle. E. L. Potter. 1915. 92 p. Oreg. Agr. Col. Ext. Bul. ser. 2, no. 28.

IX. HERD MANAGEMENT (Cont'd)

2. Beef Cattle (Cont'd)

A Study of the 1924 calf crop in Nevada. W. H. Hilts. 1925. 10 p. Nev. Coll. Agr. Ext. [Bul.] 57.

3. Sheep

Breeding and feeding sheep, six breeds, six years. J. W. Wilson. 1911. p. 97-120. S. D. Agr. Expt. Sta. Bul. 127.

Care and management of sheep on the farm. W. E. Joseph. 1922. 29 p. Mont. Agr. Expt. Sta. Circ. 105.

Castrating and docking lambs. G. H. Bedell and E. W. Baker. 1923. 15 p. U. S. Dept. Agr. Farmers' Bul. 1134, rev.

Docking and castrating lambs. Howard Hackedorn and C. E. Howell. 1919. 8 p. Wash. State Coll. Ext. [Bul.] ser. 1, no. 51.

Flushing and other means of increasing lamb yields. F. R. Marshall and C. G. Potts. 1924. 14 p. U. S. Dept. Agr. Bul. 996.

4-H Sheep manual. A. E. Darlow and P. H. Lowery. [1924] [8]p. Okla. Agr. Coll. Ext. Circ. 198.

The Handling of sheep on the national forests. [Published by Forest service, U. S. Dept. of agriculture] 1920. 21 p. English and Spanish in same pamphlet.

Instructions for sheep herders and camp tenders on the national forests. [Published by Forest service, U. S. Dept. of Agriculture] 1926. 8 p.

Lamb feeding and sheep husbandry in Idaho. W. L. Carlyle and E. J. Iddings. 1913. 37 p. Idaho Agr. Expt. Sta. Bul. 77.

Lambs; saving a larger harvest. C. M. Hubbard. 1927. Wash. State Coll. Ext. [Bul.] 143.

Live stock management; sheep raising in Oregon. E. L. Potter and O. M. Nelson. 1915. 45 p. Oreg. Agr. Coll. Ext. Bul. ser. 2, no. 38.

The Management of farm flocks in Idaho. E. J. Iddings. 1917. 20 p. Idaho Agr. Expt. Sta. Bul. 96.

Managing sheep on North Dakota farms. By W. F. La Grange. Sheep troubles and remedies. By Don McMahan. 1920. 23 p. N. D. Agr. Coll. Ext. Circ. 35.

Observations on range sheep management in New Mexico. H. S. Moles, J. G. Koogler, and P. E. Neale. 1924. 27 p. N. M. Coll. Agr. Ext. Circ. 80. Also published in Spanish.



IX. HERD MANAGEMENT (Cont'd)

3. Sheep.(Cont'd)

- One-night camps vs. established bed-grounds on Nevada sheep ranges. C. E. Fleming. 1923. 21 p. Nev. Agr. Expt. Sta. Bul. 103.
- Range sheep production on the Red Desert and adjoining areas. A. F. Vass and Harry Pearson. 1927. 87 p. Wyo. Agr. Expt. Sta. Bul. 156.
- The Searing iron vs. the knife for docking or detailing lambs. J. M. Jones and C. M. Hubbard. 1920. 12 p. Tex. Agr. Expt. Sta. Bul. 262.
- The Sheep. J. W. Wilson and B. L. Thompson. 1918. p. 766-779. S. D. Agr. Expt. Sta. Bul. 177.
- Sheep and their care. D. J. Griswold and Don McMahan. 1925. 100 p. N. D. Agr. Coll. Ext. Circ. 69.
- Sheep breeding and feeding. J. M. Jones. 1917. 24 p. Tex. Agr. Expt. Sta. Bul. 205.
- Sheep for Washington farms. R. C. Ashby. 1913. [14]p. Wash. Agr. Expt. Sta. Pop. Bul. 58.
- Sheep husbandry in Oklahoma. W. L. Carlyle and D. A. Spencer. 1916. 47 p. Okla. Agr. Expt. Sta. Bul. 111.
- Sheep husbandry in the Pacific Northwest. William Hislop and C. E. Howell. 1917. 24 p. Wash. Agr. Expt. Sta. Bul. 134.
- Sheep, hogs and horses in the Pacific Northwest. James Withycombe, H. T. Fren and S. B. Nelson. 1900. 28 p. U. S. Dept. Agr. Farmers' Bul. 117.
- The Sheep industry on the Minidoka reclamation project. E. F. Rinehart. 1917. 28 p. U. S. Dept. Agr. Bul. 573.
- Sheep on irrigated farms in the Northwest. S. O. Jayne. 1919. 32 p. U. S. Dept. Agr. Farmers' Bul. 1051.
- Sheep on the farm. R. W. Clark. 1918. 31 p. Colo. Agr. Coll. Ext. Bul. 144.
- Sheep production in Colorado. C. I. Bray. 1925. 44 p. Colo. Agr. Expt. Sta. Bul. 304.
- Sheep production in Kansas. H. E. Reed. 1927. 76 p. Kans. Agr. Expt. Sta. Bul. 240.
- Sheep production in Texas. J. McK. Jones and J. E. Boog-Scott. 1915. 86 p. Tex. Dept. Agr. Bul. 44.

4. Goats

The Angora goat. G. P. Williams. 1921. 26 p. U. S. Dept. Agr. Farmers' Bul. 1203.

The Goat industry in western Washington. D. A. Brodie. 1906. 23 p. Wash. Agr. Expt. Sta. Bul. 78.

Production of goats on far western ranges. W. R. Chapline. 1919. 35 p. U. S. Dept. Agr. Bul. 749.

## X. HIDES AND SKINS

Country hides and skins; skinning, curing and marketing. R. W. Frey, F. P. Veitch, R. W. Hickman, and C. V. Whalin. 1923. 55 p. U. S. Dept. Agr. Farmers' Bul. 1055, rev.

Hides and skins: production, foreign trade, supply, and consumption. G. K. Holmes. 1918. U. S. Dept. Agr. Yearbook, 1917, p. 425-446. (Y.B. Sep. 741)

## XI. JUDGING

1. General

Exhibiting and judging at agricultural fairs; standards of excellence. J. C. Patterson and R. E. McDonald. 1919. 63 p. Tex. Dept. Agr. Bul. 66.

Judging Kansas live stock. C. G. Elling. 1924. 56 p. Kans. Agr. Coll. Ext. Bul. 47.

Judging livestock. B. W. Fairbanks. 1927. 24 p. Colo. Agr. Coll. [Ext. Bul.] 265-A.

Livestock judging contests. J. H. Shepperd. 1922. 31 p. N. D. Agr. Expt. Sta. Bul. 157.

The Score card in stock breeding. G. M. Rommel. 1905. 54 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 70.

The Score card in stock judging at agricultural colleges. G. M. Rommel. 1904. 124 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 61.

Score cards for livestock exhibits. G. R. Hyslop. 1922. 19 p. Oreg. Agr. Coll. Ext. Bul. 340.

2. Beef Cattle

Judging beef cattle. E. H. Thompson. 1925. 14 p. U. S. Dept. Agr. Farmers' Bul. 1068, rev.

Judging horses and cattle. H. J. Gramlich. 1912. p. 5-28. Nebr. Agr. Coll. Ext. Bul. 5.

## XII. POISONOUS PLANTS.

### 1. General

- Colorado plants injurious to livestock. G. H. Glover and W. W. Robbins.  
1916. 71 p. Colo. Agr. Expt. Sta. Bul. 211.
- Feeding wild plants to sheep. S. B. Nelson. 1906. 64 p. Wash. Agr. Expt. Sta. Bul. 73.
- Plants poisonous to livestock in Montana. H. E. Morris and Howard Welch.  
1927. 28 p. Mont. Agr. Expt. Sta. Circ. 134.
- Poisonous plants of Colorado. L. W. Durrell and G. H. Glover. 1927. 28 p.  
Colo. Agr. Expt. Sta. Bul. 315.
- Poisonous plants of Wyoming. O. A. Beath. 1921. 35 p. Wyo. Agr. Expt. Sta. Bul. 126.
- Prevention of losses of live stock from plant poisoning. C. D. Marsh.  
1916. 11 p. U. S. Dept. Agr. Farmers' Bul. 720.
- Principal poisonous plants of the western stock ranges. C. D. Marsh.  
[Published by Bureau of plant industry, U. S. Dept. of agriculture,  
1914. 11 p.
- The Principal stock-poisoning plants of New Mexico. E. P. Johnson and  
W. A. Archer. 1922. 40 p. N. M. Coll. Agr. Ext. Circ. 71.
- The Principal stock-poisoning plants of Oregon. W. E. Lawrence. 1922. 42 p.  
Oreg. Agr. Expt. Sta. Bul. 187.
- Range plants poisonous to sheep and cattle in Nevada. C. E. Fleming.  
Spanish translation by B. F. Schappelle. 1918. 51 p. Nev. Agr. Expt. Sta. Bul. 95.
- Some conditions of stock poisoning in Idaho. H. B. Slade. 1903. p. 157-  
190. Idaho Agr. Expt. Sta. Bul. 37.
- Some poisonous plants of Idaho, by F. W. Gail, and Some suggested remedies,  
by A. R. Hahner. 1916. 16 p. Idaho Agr. Expt. Sta. Bul. 86.
- Some stock poisoning plants of North Dakota. L. Van Es and L. R. Waldron.  
1903. p. 319-352. N. D. Agr. Expt. Sta. Bul. 58.
- Stock poisoning due to scarcity of food. C. D. Marsh. 1913. 4 p. U. S.  
Dept. Agr. Farmers' Bul. 536.
- Stock poisoning on the range; its causes and control. William May. 1919.  
[4] p. Colo. Agr. Coll. Ext. Bul. 164-A.



## XII. POISONOUS PLANTS (Cont'd)

### 1. General (Cont'd)

Stock poisoning plants of California. H. M. Hall and H. S. Yates. 1915. p. 217-247. Calif. Agr. Expt. Sta. Bul. 249.

Stock-poisoning plants of the range. C. D. Marsh. 1924. 36 p. U. S. Dept. Agr. Dept. Bul. 1245.

### 2. Chokecherry.

The Common chokecherry (Prunus demissa) as a plant poisonous to sheep and cattle. C. E. Fleming, M. R. Miller, and L. R. Vawter. 1926. 30 p. Nev. Agr. Expt. Sta. Bul. 109.

The Poisoning of sheep on mountain grazing ranges in Nevada by the western chokecherry (Prunus demissa). C. E. Fleming and Robert Dill. 1928. 14 p. Nev. Agr. Expt. Sta. Bul. 110.

### 3. Death Camas.

The Chemical examination of death camas. F. W. Heyl, S. K. Loy, H. G. Knight, and O. L. Prien. 1912. 31 p. Wyo. Agr. Expt. Sta. Bul. 94.

The Death camas species, Zygadenus paniculatus and Z. elegans, as poisonous plants. C. D. Marsh and A. B. Clawson. 1922. 25 p. U. S. Dept. Agr. Bul. 1012.

Death camas (Zygadenus paniculatus and Zygadenus venenosus); plants poisonous to sheep and cattle. 1921. 31 p. Nev. Agr. Expt. Sta. Bul. 101.

The Meadow death camas (Zygadenus venenosus) as a poisonous plant. C. D. Marsh and A. B. Clawson. 1924. 13 p. U. S. Dept. Agr. Dept. Bul. 1240.

Nuttall's death camas (Zygadenus nuttallii) as a poisonous plant. C. D. Marsh, A. B. Clawson, and G. C. Roe. 1926. 13 p. U. S. Dept. Agr. Dept. Bul. 1376.

The Stock-poisoning death camas. C. D. Marsh and A. B. Clawson. 1922. 11 p. U. S. Dept. Agr. Farmers' Bul. 1273.

Zygadenus, or death camas. C. D. Marsh, A. B. Clawson, and Hadleigh Marsh. 1915. 46 p. U. S. Dept. Agr. Bul. 125.

### 4. Larkspur.

Chemical examination of three delphiniums. O. A. Beath. 1925. p. 49-70. Wyo. Agr. Expt. Sta. Bul. 143.

XII. POISONOUS PLANTS (Cont'd)

4. Larkspur (Cont'd)

- The Chemical examination of three species of larkspurs. O. A. Beath. 1919. p. 52-58. Wyo. Agr. Expt. Sta. Bul. 120.
- Eradicating tall larkspur on cattle ranges in the national forests. A. E. Aldous. 1917. 23 p. U. S. Dept. Agr. Farmers' Bul. 826.
- Larkspur, or poison weed. C. D. Marsh, A. B. Clawson, and Hadleigh Marsh. 1923. 16 p. U. S. Dept. Agr. Farmers' Bul. 988.
- Larkspur poisoning of livestock. C. D. Marsh, A. B. Clawson, and Hadleigh Marsh. 1916. 91 p. U. S. Dept. Agr. Bul. 365.
- The Larkspurs as poisonous plants. A. C. Crawford. 1907. U. S. Dept. Agr. Bur. Plant Indus. Bul. 111, p. 5-12.
- The Low larkspur (Delphinium andersonii); a plant of the spring range, poisonous to cattle. C. E. Fleming, M. R. Miller, and L. R. Vawter. 1923. 22 p. Nev. Agr. Expt. Sta. Bul. 105.
- Notes on larkspur eradication on stock ranges. C. D. Marsh and A. B. Clawson. 1918. 6 p. U. S. Dept. Agr. Bur. Anim. Indus. [Doc.] A. I. 34.
- Poisoning by larkspur. G. H. Glover. 1918. [4] p. Colo. Agr. Coll. Ext. Bul. 142.

5. Loco-Weed.

- Barium, a cause of the loco-weed disease. A. C. Crawford. 1908. 87 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 129.
- The Loco-weed disease. C. D. Marsh. 1919. 19 p. U. S. Dept. Agr. Farmers' Bul. 1054.
- The Loco weed and its effect on live stock. F. C. Gates. 1925. 4 p. Kans. Agr. Expt. Sta. Circ. 118.
- The Loco-weed disease of the plains. C. D. Marsh. 1909. 130 p. U. S. Dept. Agr. Bur. Anim. Indus. Bul. 112.
- The Relation of barium to the loco-weed disease. I. A. field study...by C. D. Marsh. II. Laboratory studies...by C. L. Alsberg and O. F. Black. 1912. 67 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 246.

## XII. POISONOUS PLANTS (Cont'd)

### 6. Lupine

The Chemical examination of the silvery lupine. O. A. Beath. 1920. p. 99-144. Wyo. Agr. Expt. Sta. Bul. 125.

Lupine studies. II. The silvery lupine. O. A. Beath. 1925. 16 p. Wyo. Agr. Expt. Sta. Bul. 144.

Lupines as poisonous plants. C. D. Marsh, A. B. Clawson, and Hadleigh Marsh. 1916. 45 p. U. S. Dept. Agr. Bul. 405.

Relative toxicity of the lupine alkaloids. J. F. Couch. 1926. U. S. Dept. Agr. Jour. Agr. Research, 32: 51-67. (A-106)

### 7. Milkweed

Control of the whorled milkweed in Colorado. W. L. May. 1923. 24 p. Colo. Agr. Expt. Sta. Bul. 285.

The Mexican whorled milkweed (Asclepias mexicana) as a poisonous plant. C.D. Marsh and A. B. Clawson. 1921. 16 p. U. S. Dept. Agr. Bul. 969.

The Narrow-leaved milkweed (Asclepias mexicana) and the broad-leaved or showy milkweed (Asclepias speciosa); plants poisonous to live stock in Nevada. C. E. Fleming, N. F. Peterson, M. R. Miller, L. R. Vawter, and L. H. Wright. 1920. 32 p. Nev. Agr. Expt. Sta. Bul. 99.

A New poisonous plant, the whorled milkweed (Asclepias verticillata). G. H. Glover, I. E. Newsom and W. W. Robbins. 1918. 16 p. Colo. Agr. Expt. Sta. Bul. 246.

Poisonous properties of the whorled milkweeds, Asclepias punila and A. verticillata var. Geyeri. C. D. Marsh and A. B. Clawson. 1921. 14 p. U. S. Dept. Agr. Bul. 942.

The Whorled milkweed (Asclepias galioides) as a poisonous plant. C. D. Marsh, A. B. Clawson, J. F. Couch, and W. W. Eggleston. 1920. 40 p. U. S. Dept. Agr. Bul. 800.

Whorled milkweed, the worst stock-poisoning plant in Colorado. W. L. May. 1920. 39 p. Colo. Agr. Expt. Sta. Bul. 255.

Woolly-pod milkweed; a dangerous stock-poisoning plant. C. D. Marsh and A.B. Clawson. 1923. 4 p. U. S. Dept. Agr. Dept. Circ. 272.



## XII. POISONOUS PLANTS (Cont'd)

### 8. Rayless Goldenrod

The "Alkali disease" of livestock in the Pecos Valley. C. D. Marsh and G. C. Roe. 1921. 8 p. U. S. Dept. Agr. Dept. Circ. 180.

Rayless goldenrod (Aplopappus heterophyllus) as a poisonous plant. C. D. Marsh, G. C. Roe, and A. B. Clawson. 1926. 24 p. U. S. Dept. Agr. Dept. Bul. 1391.

### 9. Water Hemlock

Cicuta, or water hemlock. C. D. Marsh, A. B. Clawson, and Hadleigh Marsh. 1914. 27 p. U. S. Dept. Agr. Bul. 69.

The Poison parsnip or water hemlock (Cicuta occidentalis); a plant deadly to livestock in Nevada. C. E. Fleming, N. F. Peterson, M. R. Miller, L. H. Wright, and R. C. Louck. 1920. 23 p. Nev. Agr. Expt. Sta. Bul. 100.

Water hemlock, a poisonous plant. W. W. Robbins. 1918. [4] p. Colo. Agr. Coll. Ext. Bul. 139.

Water hemlock (Cicuta) C. A. Jacobsen. 1915. 46 p. Nev. Agr. Expt. Sta. Bul. 81.

### 10. Woody Aster

Chemical and pharmacological examination of the wood aster. [O. A. Beath] 1920. p. 39-66. Wyo. Agr. Expt. Sta. Bul. 123.

The Identification of the woody aster. [Aven Nelson and H. G. Knight] 1913. [4] p. Wyo. Agr. Expt. Sta. Bul. 97.

Woody aster (Xylorrhiza parryi Gray) [O. L. Prien, Aven Nelson, and L. C. Raiford] 1911. 20 p. Wyo. Agr. Expt. Sta. Bul. 88.

### 11. Miscellaneous

Arrow-grass; a new stock-poisoning plant (Triglochin maritima). C. E. Fleming, N. F. Peterson, M. R. Miller, L. H. Wright, and R. C. Louck. 1920. 22 p. Nev. Agr. Expt. Sta. Bul. 98.

Astragalus tetrapterus, a new poisonous plant of Utah and Nevada. C. D. Marsh and A. B. Clawson. 1920. 7 p. U. S. Dept. Agr. Dept. Circ. 81.

Coyotillo (Karwinskia humboldtiana) as a poisonous plant. C. D. Marsh, A. B. Clawson, and G. C. Roe. 1928. 27 p. U. S. Dept. Agr. Tech. Bul. 29.

XII. POISONOUS PLANTS (Cont'd)

11. Miscellaneous (Cont'd)

- Daubentonia longifolia (Coffee bean) a poisonous plant. C. D. Marsh and A. B. Clawson. 1920. U. S. Dept. Agr. Jour. Agr. Research, 20: 507-514. (A-54)
- Don't feed fox-tail hay to lambing ewes. C. E. Fleming and N. F. Peterson. 1919. 18 p. Nev. Agr. Expt. Sta. Bul. 97.
- Eupatorium urticaefolium as a poisonous plant. C. D. Marsh, and A. B. Clawson. 1917. U. S. Dept. Agr. Jour. Agr. Research, 11: 699-716. (A-33)
- Greasewood as a poisonous plant. C. D. Marsh, A. B. Clawson and J. F. Couch. 1923. 4 p. U. S. Dept. Agr. Dept. Circ. 279.
- Livestock poisoning by cocklebur. C. D. Marsh, G. O. Ree, A. B. Clawson. 1923. 4 p. U. S. Dept. Agr. Dept. Circ. 283.
- Menziesia, a new stock poisoning plant of the northwestern states. C. D. Marsh. [Pub. by Bureau of plant industry, U. S. Dept. of agriculture, 1914. 3 p.
- Oak-leaf poisoning of domestic animals. C. D. Marsh, A. B. Clawson, and Hadleigh Marsh. 1919. 36 p. U. S. Dept. Agr. Bul. 767.
- Oleander poisoning of livestock. F. W. Wilson. 1909. p. 383-397. Ariz. Agr. Expt. Sta. Bul. 59.
- Poisoning of cattle by common sorghum and kafir corn. A. T. Peters, H. B. Slade, and Samuel Avery. 1903. 16 p. Nebr. Agr. Expt. Sta. Bul. 77.
- The Poisoning of livestock while feeding on plants of the sorghum group. C. K. Francis. 1915. [4] p. Okla. Agr. Expt. Sta. Circ. 58.
- The Poisonous action of Johnson grass. A. C. Crawford. 1906. U. S. Dept. Agr. Bur. Plant Indus. Bul. 90. p. 31-34.
- The Poisonous properties of the two grooved milk vetch (Astragalus bisulcatus). O. A. Beath and E. H. Lehnert. 1917. p. 57-67. Wyo. Agr. Expt. Sta. Bul. 112.
- Precautions for feeding spoiled sweet clover hay; rabbits can be used to determine its safety for cattle feed. L. M. Roderick and A. F. Schalk. 1928. 4 p. N. D. Agr. Expt. Sta. Circ. 35.

## XII. POISONOUS PLANTS (Cont'd)

### 11. Miscellaneous (Cont'd)

The Spring rabbit-brush (Tetradymia glabrata); a range plant poisonous to sheep. C. E. Fleming, M. R. Miller and L. R. Vawter. 1922. 29 p. Nev. Agr. Expt. Sta. Bul. 104.

Sweet-clover-seed screenings not injurious to sheep. C. D. Marsh and G. C. Roe. 1920. 7 p. U. S. Dept. Agr. Dept. Circ. 87.

Western sneezeweed (Helenium hoopesii) as a poisonous plant. C. D. Marsh, A. B. Clawson, J. F. Couch, and Hadleigh Marsh. 1921. 46 p. U. S. Dept. Agr. Bul. 947.

Wild tobacco. (Nicotiana trigonophylla Dunal and Nicotiana attenuata Torrey) as stock-poisoning plants. C. D. Marsh, A. B. Clawson and G. C. Roe. 1927. 23 p. U. S. Dept. Agr. Tech. Bul. 22.



XIII. PREDATORY ANIMALS; RODENTS, AND THEIR CONTROL.

The California ground squirrel. C. H. Merriam. 1910. 15 p. U. S. Dept. Agr. Bur. Biol. Surv. Circ. 76.

The Common mole. T. H. Scheffer. 1910. 36 p. Kans. Agr. Expt. Sta. Bul. 168.

Common rodent pests of Wyoming. A. M. Day. 1923. Wyo. Coll. Agr. Ext. Serv. Wyo. Farm Bul. v. 11, no. 4,

The Control of destructive animals. E. E. Scholl, and J. W. Neill. 1918. 19 p. Tex. Dept. Agr. Bul. 60.

Control of ground squirrels by the fumigation method. G. R. Stewart, and J. B. Burd. 1918. p. 205-224. Calif. Agr. Expt. Sta. Bul. 302.

Control of mammals injurious to agriculture in Kansas. G. E. Johnson, 1925. 10 p. Kansas. Agr. Expt. Sta. Circ. 120.

The Control of prairie dogs and ground squirrels. M. H. Spaulding. 1912. p. 9-26. Mont. Agr. Expt. Sta. Circ. 120.

The Control of rodent pests; directions for killing ground squirrels, pocket gophers, rabbits, and field mice. C. J. Sorenson. 1918. 12 p. Utah. Agr. Expt. Sta. Circ. 29.

Control of the California ground squirrel. Joseph Dixon. 1925. 15 p. Calif. Agr. Expt. Sta. Circ. 296.

Control of the coyote in California. Joseph Dixon. 1920. p. 377-397. Calif. Agr. Expt. Sta. Bul. 320.

Control of the jack-rabbit pest in Nevada. R. A. Ward. 1917. 11 p. Nev. Coll. Agr. Ext. [Bul.] 13.

The Control of the pocket gopher. G. F. Sykes. 1917. [4] p. Oreg. Agr. Coll. Ext. Bul. 200.

Control of the pocket gopher in California. Joseph Dixon. 1924. p. 335-350. Calif. Agr. Expt. Sta. Bul. 340, rev.

### XIII. PREDATORY ANIMALS, RODENTS, AND THEIR CONTROL (Cont'd)

- Controlling rodent and other small animal pests in Oregon. Revised. I. W. Gabrielson. 1926. 20 p. Oreg. Agr. Coll. Ext. Bul. 390.
- Cooperative campaigns for the control of ground squirrels, prairie dogs, and jack rabbits. W. B. Bell. 1913. U. S. Dept. Agr. Yearbook, 1917, p. 225-233. (Y. B. Sep. 724)
- The Cost of a squirrel and squirrel control. W. T. Shaw. 1920. 19 p. Wash. Agr. Expt. Sta. Pop. Bul. 118.
- Coyote-proof inclosures in connection with range lambing grounds. J. T. Jardine. 1911. 32 p. U. S. Dept. Agr. Forest Serv. Bul. 97.
- Coyote-proof pasture experiment, 1903. J. T. Jardine. 1909. 40 p. U. S. Dept. Agr. Forest Serv. Circ. 160.
- Coyotes in their economic relations. D. E. Lantz. 1905. 28 p. U. S. Dept. Agr. Biol. Surv. Bul. 20.
- Damage to range grasses by the Zuni prairie dog. W. P. Taylor and J. V. G. Loftfield. 1924. 15 p. U. S. Dept. Agr. Dept. Bul. 1227.
- Death to the rodents. W. B. Bell. 1921. U. S. Dept. Agr. Yearbook, 1920, p. 421-438. (Y. B. Sep. 855)
- Destroying rodent pests on the farm. D. E. Lantz. 1917. U. S. Dept. Agr. Yearbook, 1916, p. 381-398, (Y. B. Sep. 708)
- Destruction of wolves and coyotes. Results obtained during 1907. Vernon Bailey. 1908. 11 p. U. S. Dept. Agr. Bur. Biol. Surv. Circ. 63.
- Directions for destroying pocket gophers. D. E. Lantz. 1908. 4 p. U. S. Dept. Agr. Bur. Biol. Surv. Circ. 52, rev.
- Directions for the destruction of prairie dogs. C. H. Merriam. 1901. [2] p. U. S. Dept. Agr. Div. Biol. Surv. Circ. 32.
- Directions for the destruction of wolves and coyotes. Vernon Bailey. 1907. 6 p. U. S. Dept. Agr. Bur. Biol. Surv. Circ. 55.
- An Economic study of field mice (genus Microtus). D. E. Lantz. 1907. 64 p. U. S. Dept. Agr. Biol. Surv. Bul. 31.
- Ground squirrel control. W. T. Shaw. 1916. 11 p. Wash. Agr. Expt. Sta. Pop. Bul. 99.
- How to combat rabbits, gophers, prairie dogs, coyotes, ants, and grasshoppers. A. L. Paschall. 1917. p. 321-338. Ariz. Agr. Expt. Sta. Bul. 81.

XIII. PREDATORY ANIMALS, RODENTS, AND THEIR CONTROL (Cont'd)

- Kansas mammals in their relation to agriculture. D. E. Lantz. 1905.  
p. 331-404. Kans. Agr. Expt. Sta. Bul. 129.
- Killing prairie dogs in Oklahoma. B. J. Milton. 1922. [7] p. Okla. Agr.  
Coll. Ext. Circ. 162.
- The Life-history and control of the pocket gopher in the Willamette Valley.  
H. M. Wight. 1918. 55 p. Oreg. Agr. Expt. Sta. Bul. 153.
- The Pocket gopher. T. H. Scheffer. 1910. p. 196-233. Kans. Agr. Expt.  
Sta. Bul. 172.
- The Prairie dog and its control. M. H. Swenk. 1915. 38 p. Nebr. Agr.  
Expt. Sta. Bul. 154.
- The Prairie dog in Montana. O. E. Stephl. 1927. 13 p. Mont. State Coll.  
Ext. Circ. 83.
- Preliminary report on grazing experiments in a coyote-proof pasture. J. T.  
Jardine. 1908. 32 p. U. S. Dept. Agr. Forest Serv. Circ. 156.
- The Relation of coyotes to stock raising in the West. D. E. Lantz. 1905.  
24 p. U. S. Dept. Agr. Farmers' Bul. 226.
- Rodent pests of the farm. D. E. Lantz. 1918. 23 p. U. S. Dept. Agr.  
Farmers' Bul. 932.
- Sheep-killing dogs. M. W. Coll. 1922. 29 p. U. S. Dept. Agr. Farmers'  
Bul. 1268.  
Contains digest of existing dog laws.
- Use of poison for destroying noxious mammals. D. E. Lantz. 1909. U. S.  
Dept. Agr. Yearbook, 1908, p. 421-432. (Y. B. Sep. 491)
- Washington's annual losses from ground squirrels. W. T. Shaw. 1921. 8 p.  
Wash. State Coll. Ext. Bul. 69.



#### XIV. RANGE AND PASTURE MANAGEMENT.

(See also VIII. 4. Range and pasture grasses and plants, p. 53)

Carrying capacity of grazing ranges in southern Arizona. E. O. Wooton. 1916. 40 p. U. S. Dept. Agr. Bul. 367.

Cattle ranges of the Southwest: a history of the exhaustion of the pasturage and suggestions for its restoration. H. L. Bentley. 1898. 32 p. U. S. Dept. Agr. Farmers' Bul. 72.

Effect of burning on vegetation in Kansas pastures. R. L. Hensel. 1923. U. S. Dept. Agr. Jour. Agr. Research, 23: 631-644. (Kans.-29).

Effect of grazing upon aspen reproduction. A. W. Sampson. 1919. U. S. Dept. Agr. Bul. 741.

Effect of grazing upon western yellow pine reproduction in central Idaho. W. N. Sparhawk. 1918. 31 p. U. S. Dept. Agr. Bul. 738.

Effects of grazing upon western yellow-pine reproduction in the national forests of Arizona and New Mexico. R. R. Hill. 1917. 27 p. U. S. Dept. Agr. Bul. 580.

Experiments in range improvement in central Texas. H. L. Bentley. 1902. 72 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 13.

Experiments in range improvements. J. G. Smith. 1899. 5 p. U. S. Dept. Div. Agrostology Circ. 8.

An Extension program in crop production to reinforce range livestock, dairying, and human nutrition for the western states. W. A. Lloyd. 1924. 16 p. U. S. Dept. Agr. Dept. Circ. 335.

An Extension program in home management and farm management for the western states, with reports of standing regional committees on range livestock, dairying, farm crops, and human nutrition. W. A. Lloyd. 1925. 16 p. U. S. Dept. Agr. Dept. Circ. 375.

An Extension program in range livestock, dairying, and human nutrition for the western states. W. A. Lloyd. 1924. 14 p. U. S. Dept. Agr. Dept. Circ. 308.

Factors affecting range management in New Mexico. E. O. Wooton. 1915. 39 p. U. S. Dept. Agr. Bul. 211.

Forage conditions and problems in eastern Washington, eastern Oregon, northeastern California, and northwestern Nevada. David Griffiths. 1903. 52 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 33.

Forest growth and sheep grazing in the Cascade Mountains of Oregon. F. V. Coville. 1898. 54 p. U. S. Dept. Agr. Div. Forestry Bul. 15.

XIV. RANGE AND PASTURE MANAGEMENT (Cont'd)

- Grazing and floods: a study of conditions in the Manti national forest, Utah. R. V. R. Reynolds. 1911. 16 p. U. S. Dept. Agr. Forest Serv. Bul. 91.
- Grazing periods and forage production on the national forests. A. W. Sampson and H. E. Malmsten. 1926. 54 p. U. S. Dept. Agr. Dept. Bul. 1405.
- Grazing problems in the Southwest and how to meet them. J. G. Smith. 1899. 47 p. U. S. Dept. Agr. Div. Agrostoplogy. Bul. 16.
- Improvement and management of native pastures in the West. J. T. Jardine. 1916. U. S. Dept. Agr. Yearbook, 1915, p. 299-319. (Y. B. Sep. 678)
- Improvement of mountain meadows: J. S. Cotton. 1908. 29 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 127.
- Increased cattle production on southwestern ranges. J. T. Jardine and L. C. Hartt. 1917. 32 p. U. S. Dept. Agr. Bul. 588.
- Live-stock grazing as a factor in fire protection on the national forests. J. H. Hatton. 1920. 11 p. U. S. Dept. Agr. Dept. Circ. 134.
- The Management of irrigated grass pastures. J. S. Welch. 1917. 17 p. Idaho Agr. Expt. Sta. Bul. 95.
- Management of range grazing land. J. T. Jardine, H. A. Lindgren, and E. L. Potter. 1923. 15 p. Oreg. Agr. Coll. Ext. Bul. 366.
- Natural revegetation of depleted mountain grazing lands. Progress report. A. W. Sampson. 28 p. U. S. Dept. Agr. Forest Serv. Circ. 169.
- Natural revegetation of range lands based upon growth requirements and life history of the vegetation. A. W. Sampson. 1914. U. S. Dept. Agr. Jour. Agr. Research, 3: 93-148. (F-3)
- The Pasturage system for handling range sheep. Investigations during 1909. J. T. Jardine. 1910. 40 p. U. S. Dept. Agr. Forest Serv. Circ. 178.
- Plant succession in relation to range management. A. W. Sampson. 1919. 76 p. U. S. Dept. Agr. Bul. 791.
- A Protected stock range in Arizona. David Griffiths. 1910. 28 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 177.
- Range improvement by deferred and rotation grazing. A. W. Sampson. 1913. 15 p. U. S. Dept. Agr. Bul. 34.
- Range improvement in Arizona. David Griffiths. 1901. 31 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 4.
- Range investigations in Arizona. David Griffiths. 1904. 62 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 67.



#### XIV. RANGE AND PASTURE MANAGEMENT (Cont'd.)

- Range management. G. W. Barnes and J. W. Simpson. [1923] 8 p.  
Tex. Agr. Coll. Ext. Circ. C-32.
- Range management. J. S. Cotton. 1907. U. S. Dept. Agr. Yearbook, 1906.  
p. 225-238. (Y. B. Sep. 419)
- Range management in the national forests. J. T. Jardine and Mark Anderson.  
1919. 97 p. U. S. Dept. Agr. Bul. 790.
- Range management in the state of Washington. J. S. Cotton. 1905. 28 p.  
U. S. Dept. Agr. Bur. Plant Indus. Bul. 75.
- Range preservation and its relation to erosion control on western grazing  
lands. A. W. Sampson and L. H. Weyl. 1918. 33 p. U. S. Dept. Agr. Bul.  
675.
- The Relation of land tenure to the use of the arid grazing lands of the  
southwestern states. E. O. Wooton. 1922. 72 p. U. S. Dept. Agr.  
Bul. 1001.
- The Renewing of worn-out native prairie pastures. T. A. Williams. 1897.  
4 p. U. S. Dept. Agr. Div. Agrostology Circ. 4, rev.
- The Reseeding of depleted grazing lands to cultivated forage plants. A. W.  
Sampson. 1913. 34 p. U. S. Dept. Agr. Bul. 4.
- The Reseeding of depleted range and native pastures. David Griffiths.  
1907. 27 p. U. S. Dept. Agr. Bur. Plant Indus. Bul. 117.
- The Revegetation of overgrazed range areas. Preliminary report. A. W.  
Sampson. 1908. 21 p. U. S. Dept. Agr. Forest Serv. Circ. 158.
- Revegetation of waste range land. H. C. Hanson. 1928. 9 p. Colo. Agr.  
Expt. Sta. Bul. 332.
- The Story of the range; an account of the occupation of the public domain  
ranges of the pioneer stockmen, the effect on the forage and the land of  
unrestricted grazing, and the attempts that have been made to regulate  
grazing practice and perpetuate the great natural forage resources of  
the open ranges. W. C. Barnes. 1926. 60 p.  
Reprinted by Forest Service, U. S. Dept. of Agriculture, from part  
6 of the Hearings before a sub-committee of the Committee on public  
lands and surveys, U. S. Senate, 69th Cong., 1st sess., pursuant to  
Sen. Res. 347.
- This Public domain of ours. George Stewart. 1924. 56 p. Utah Agr.  
Expt. Sta. Circ. 49.
- The Tail of the short grass steer. The story of a Great Plains grazing  
trial. J. H. Shepperd. 1921. [8] p. N. D. Agr. Expt. Sta. Bul.  
154.



#### XIV. RANGE AND PASTURE MANAGEMENT (Cont'd)

- The Use Book; a manual of information about the national forests. Grazing section. Pub. by Forest Service, U. S. Dept. of Agriculture. 96 p. 1926.
- The Utilization of logged-off land for pasture in western Oregon and western Washington. Byron Hunter and Harry Thompson. 1911. 20 p.  
U. S. Dept. Agr. Farmers' Bul. 462.

#### XV. SALT AND OTHER MINERALS.

- Bone chewing by cattle. Howard Welch. 1924. 8 p. Mont. Agr. Expt. Sta. Circ. 122.
- Feeding bone meal to range cattle on the coastal plain of Texas. Preliminary report. H. Schmidt. 1926. 37 p. Tex. Agr. Expt. Sta. Bul. 344.
- Mineral feeds for farm animals. Jerry Sotola, R. T. Smith, E. V. Ellington, and L. W. Cassel, 1924. 19 p. Wash. Agr. Expt. Sta. Pop. Bul. 127.
- Mineral requirements of sheep. G. S. Fraps. 1918. 20 p. Tex. Agr. Expt. Sta. Bul. 232.
- The Salt or sodium chloride content of feeds. G. S. Fraps and S. Lomanitz. 1920. 14 p. Tex. Agr. Expt. Sta. Bul. 271.
- The Use of salt in range management. W. R. Chapline and M. W. Talbot. 1926. 32 p. U. S. Dept. Agr. Dept. Circ. 379.

#### XVI. WATER SUPPLY.

- Range watering places in the Southwest. M. W. Talbot. 1926. 43 p.  
U. S. Dept. Agr. Dept. Bul. 1348.
- Stock-watering places on western grazing lands. W. C. Barnes. 1914. 27 p. U. S. Dept. Agr. Farmers' Bul. 592.

#### XVII. WOOL AND MOHAIR STUDIES.

- Effect of feeding and management of sheep on the tensile strength and elasticity of wool. W. E. Joseph. 1926. U. S. Dept. Agr. Jour. Agr. Research, 33: 1073-1089. (Mont. - 16)
- Effects of alkali and weathering upon the wool of range sheep. J. A. Hill. 1922. 16 p. Wyo. Agr. Expt. Sta. Bul. 131.
- Further studies on the influence of humidity upon the strength and elasticity of wool fiber. J. I. Hardy. 1920. U. S. Dept. Agr. Jour. Agr. Research, 19: 55-62. (Wyo.-3)
- Growing and handling western wools. [Pub. by Bureau of animal industry. U. S. Dept. of agriculture, 1916. 4 p.

XVII. WOOL AND MOHAIR STUDIES (Cont'd)

Influence of humidity upon the strength and the elasticity of wool fiber.  
J. I. Hardy. 1918. U. S. Dept. Agr. Jour. Agr. Research, 14: 285-296. (Wyo.-2)

The Influence of individuality, age and season upon the weights of fleeces produced by Angora goats under range conditions. J. L. Lush and J. M. Jones. 1924. 54 p. Tex. Agr. Expt. Sta. Bul. 320.

The Influence of individuality, age and season upon the weights of fleeces produced by range sheep. J. L. Lush and J. M. Jones. 1923. 45 p. Tex. Agr. Expt. Sta. Bul. 311.

A Method of determining the clean weights of individual fleeces of wool.  
J. F. Wilson. 1923. 21 p. Calif. Agr. Expt. Sta. Bul. 447.

The Micrometer caliper as an instrument for measuring the diameter of wool fibers. R. H. Barnes and W. B. Kochler. 1925. p. 13-28. Wyo. Agr. Expt. Sta. Bul. 141.

Mohair and mohair manufactures. G. F. Thompson. 1902. U. S. Dept. Agr. Yearbook, 1901, p. 271-284. (Y. B. Sep. 266)

Preparation of Kansas wool for market. C. G. Elling. 1920. [9] p. Kans. Agr. Coll. Ext. Circ. 19.

Range wool production in New Mexico. M. G. Snell. 1925. 35 p. N. M. Coll. Agr. Ext. Circ. 86.

The Regain of unwashed wool. J. A. Hill. 1922. p. 35-54. Wyo. Agr. Expt. Sta. Bul. 132.

Report upon an examination of wools and other animal fibers. William McMurtrie. [Published by U. S. Dept. of Agriculture] 1886. 613 p.

Studies in the variation and correlation of fleeces from range sheep. J. A. Hill. 1921. p. 37-52. Wyo. Agr. Expt. Sta. Bul. 127.

Studies of the occurrence and elimination of kemp fibers in mohair fleeces. J. I. Hardy. 1927. 16 p. U. S. Dept. Agr. Tech. Bul. 35.

Studies on strength and elasticity of the wool fiber. I. The probable error of the mean. J. A. Hill. [1911] 139 p. Wyo. Agr. Expt. Sta. Papers from the Wool laboratory, no. 1. Suppl. to 21st Annual report.

Tensile strength and elasticity of wool. R. F. Miller and W. D. Tallman. 1915. U. S. Dept. Agr. Journ. Agr. Research, 4: 379-390. (Mont.-2)

The Value of fiber testing machines for measuring the strength and elasticity of wool. J. A. Hill. 1912. 23 p. Wyo. Agr. Expt. Sta. Bul. 92.

Wool grades and grading. C. A. Norcross. 1922. 11 p. Nev. Coll. Agr. Ext. [Bul.] 30.

XVII. WOOL AND MOHAIR STUDIES (Cont'd)

Wool number. J. A. Hill. 1921. 22 p. Wyo. Coll. Agr. Ext. Serv.  
Wyo. Farm Bul. v. 10, no. 3, June 1921.

Wool production. C. M. Hubbard. 1926. 15 p. Wash. State Coll. Ext.  
[Bul.] 136.

Wool production in California. J. F. Wilson. 1927. 42 p. Calif. Agr.  
Ext. Serv. Circ. 12.

Wool studies with Rambouillet sheep. F. S. Hultz. 1927. p. 95-123.  
Wyo. Agr. Expt. Sta. Bul. 154.

The Woolgrower and the wool trade. F. R. Marshall and L. L. Heller.  
1915. 32 p. U. S. Dept. Agr. Bul. 206.



UNITED STATES DEPARTMENT OF AGRICULTURE

LIBRARY

Bibliographical Contributions.

- No. 1. A check list of publications of the Department of Agriculture on the subject of plant pathology. 1837-1913. Prepared in the Bureau of Plant Industry Library. 1919. (Superseded by No. 8).
- No. 2. Check list of publications of the state agricultural experiment stations on the subject of plant pathology. 1876-1920. Prepared in the Bureau of Plant Industry Library. 1922. (Superseded by No. 16)
- No. 3. Check list of publications issued by the Bureau of Plant Industry, United States Department of Agriculture, 1901-1920 and by the divisions and offices which combined to form this bureau, 1862-1901. Prepared in the Bureau of Plant Industry Library. 1921.
- No. 4. Bibliography on the preservation of fruits and vegetables in transit and storage, with annotations. Prepared in the Bureau of Markets and Crop Estimates Library. 1922.
- No. 5. Index to some sources of current prices. Prepared in the Bureau of Agricultural Economics Library. 1923.
- No. 6. Partial list of publications on dairying issued in the United States, 1900 to June, 1923. Prepared in the Bureau of Animal Industry Library. 1923.
- No. 7. Bibliography on the marketing of agricultural products. Prepared in the Bureau of Agricultural Economics Library. 1924. (Superseded by U. S. Department of Agriculture Miscellaneous Circular 35).
- No. 8. Author and subject index to the publications on plant pathology issued by the U. S. Department of Agriculture up to January 1, 1925. Prepared in the Bureau of Plant Industry Library. 1925.
- No. 9. World Food supply. A selected bibliography. Prepared in the Bureau of Agricultural Economics Library. 1925.
- No. 10. Refrigeration and cold storage. A selected list of references covering the years 1915-1924 and the early part of 1925. Prepared in the Bureau of Agricultural Economics Library. 1925.
- No. 11. List of manuscript bibliographies and indexes in the U. S. Department of Agriculture including serial mimeographed lists of current literature. 1926.

*Little*

Bibliographical Contributions (Cont'd)

- No. 12. Peat: A contribution towards a bibliography of the American literature through 1925. Prepared in the Bureau of Plant Industry Library. 1926.
- No. 13. A classified list of soil publications of the United States and Canada. 1927.
- No. 14. List of the publications on soils issued by the U. S. Department of Agriculture, 1844-1926. 1927.
- No. 15. List of the publications on soils issued by the State Agricultural Experiment Stations of the United States through 1926. Prepared in the Office of Experiment Stations Library. 1927.
- No. 16. Author and subject index to the publications on plant pathology issued by the state agricultural experiment stations up to December 1, 1927. Prepared in the Bureau of Plant Industry Library. 1928.
- No. 17. Bibliography on ice cream up to and including the year 1926. Prepared in the Bureau of Dairy Industry Library. 1928.
- No. 18. Agricultural and home economics extension in the United States. A selected list of references. Prepared in the Office of Experiment Stations Library. 1928.





